東喜實業
TIRAN INDUSTRIAL

正大机械
ZHENGDA MACHINERY

Shanghai Tiran Industrial Co., Ltd. - Jurong Zhengda Machinery Co., Ltd.
Seat701, Building1, Liando U Valley, NO.69 Yuanfeng Road, Baoshan City industrial Park, Baoshan
Email: sebastian@tiranchina.com / sales@tiranchina.com - TEL: +86 21 6094 1102 FAX:+86 21 6094 3200

COLOR POWER COLLECTION – AUG´22
Photochromic pigment

TECHNICAL INFORMATION

Photochromic pigment causes color change reversibly by light. Exposure to ultraviolet rays (sunlight) causes color formation while the blockage of light makes it return to its original color

Method of use:

1. Application of paint: add the toner into the transparent medium according to the recommended proportion, stir it evenly until there is no particle, and then it can be used in printing, coating, painting, injection molding and other processes.
   The amount color changing pigment in the medium : 5%-30%

2. For the application of plastic, it is recommended to add 0.5%-1% color changing pigment to the plastic particles and stir it evenly (it is better to be manual) so that it can be directly used for injection. The temperature resistance of color changing pigment is 240 ° C.

Point for attention:

A) the material with pH value of 7~9 is suitable for the selection of base material.

B) the photo-fatigue materials are caused by excessive exposure to ultraviolet (UV), acids, free radicals, monoenergetic oxygen atoms) and high humidity. It is generally recommended to add ultraviolet (UV) absorbers and antioxidants to add photo-fatigue resistance.

C) Additives used in photosensitive color changing materials, such as thermal stabilizers, HALS antioxidants, ultraviolet (UV) absorbers and inhibitors, can improve the occurrence of light fatigue resistance.

D) if there is condensation in the photosensitive water lotion, it can be dissolved in water, heated and stirred, and then used after dispersion

E) the photosensitive color changing material does not contain harmful substances

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COLOR POWER COLLECTION – AUG´22
Photochromic pigment

PIGMENT OUTLOOK

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COLOR POWER COLLECTION – AUG´22
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APPLICATION SAMPLES: SERIGRAPHYC PRINTING

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COLOR POWER COLLECTION – AUG´22
Photochromic pigment

APPLICATION SAMPLES: PRINTING ON REAL LEATHER / SYNTHETIC LEATHER

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Email: sebastian@tiranchina.com / sales@tiranchina.com - TEL: +86 21 6094 1102 FAX:+86 21 6094 3200

COLOR POWER COLLECTION – AUG´22
Photochromic pigment

APPLICATION SAMPLES: COATING ON SYNTHETIC LEATHER

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COLOR POWER COLLECTION – AUG´22
Photochromic pigment

APPLICATION SAMPLES: PLASTIC INJECTION

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COLOR POWER COLLECTION – AUG´22
Photochromic pigment

COMMERCIAL DETAILS & CONTACT

PACKING:

MOQ (minimal order quantity):

AVAILABLE COLORS:

TR-1W
TR-2W
TR-3W
TR-4W
TR-5W
TR-6W
TR-7W
TR-8W
TR-9W
TR-10W

VISIT OUR WEB SITE
www.shanghaitiran.com

CONTACT WITH US
marketing@shanghaitiran.com

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東喜實業 TIRAN INDUSTRIAL

正大机械 ZHENGDA MACHINERY

HOLA MUNDO
jkjkj

December 20, 2019
Nº: 1050

Company name: asdf
Contact person: asdf
Email: asdf
Notes: sdf

Sales: Sebastian Pereira Cruz
Email: sebastian@tiranchina.com
Whatsapp: + 54 911 6877 6807
www.shanghaitiran.com

DETAILS

ETHYL ACETATE 99,96%

March, 2021
Eng.

PRODUCT: ETHYL ACETATE
CAS Nº: 141-78-6
UN Nº: 1173

DESCRIPTION: Ethyl Acetate is a fast evaporating, low-boiling point solvent that is fairly inert

FEATURES:

- Fast evaporation rate
- Highly miscible with other common organic solvents
- Solubility: slightly soluble in water, soluble in alcohol, ketone, ether, chloroform and other organic solvent.

ITEM	INDEX		ANALISIS RESULT
	Superior	Qualified	
Appearance	Transparent liquid, no visible impurities		Qualified
Ethyl Acetate, %(m/m) ≤	99,8	99,5	99,9
Ethanol, %(m/m) ≤	0,05	0,10	0,0012
Acidity (as acetic acid), %(m/m) ≤	0,003	0,004	0,001
Moisture, %(m/m) ≤	0,04	0,05	0,012
Residue on evaporation, %(m/m) ≤	0,001	0,001	0,001
Density (20ºC)(g/cm3)	0,897 – 0,902		0,900
Chromaticity (in Hazen)(Pt-Co) ≤	10		5

Physical properties	Value
Appearance	Colorless transparent liquid
Odor	Ester, characteristic, slightly sweet
Melting point/Freezing point (Cº)	-83,6
Flash Point (Cº)(closed cup)	-4
Initial boiling point and boiling range (Cº)	77,2
Lower explosive limit % (V/V)	2,0
Upper explosive limit % (V/V)	12,8
Vapor density (g/mL)	3,04
Auto-ignition temperatura (Cº)	470
Octano/water partition coefficient	0,73
Reletive density (g/cm3)	0,9 (20ºC)

Chemical Safety:

Flammable Irritant

Effective Date: 2020/04/17 DG2003484E

SAFETY DATA SHEET

Ethyl acetate

SDS

- According to GHS (Seventh Revised Edition)

Section 1 Product and Company Identification

> Product Identifier

Product Name	Ethyl acetate
Synonyms	-
CAS No.	141-78-6
EC No.	205-500-4
Molecular Formula	$C_4H_8O_2$

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses	Please consult manufacturer.
Uses Advised Against	Please consult manufacturer.

Company	Shanghai Tiran Industrial Co. Ltd.
Adress	Seat701, Building1, Liando U Valley, NO.69 Yuanfeng Road, Baoshan City industrial Park, Baoshan – Shanghai - China
Emergency telephone	TEL: +86 21 6094 1102

Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the seventh revised edition):

> GHS Hazard Class

Flammable Liquids	Category 2

Eye Damage/Irritation	Category 2A
Specific Target Organ Toxicity (Single Exposure)	Category 3

> GHS Label Elements

Pictogram

Signal Word Danger

> Hazard Statements

H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

> Precautionary Statements

Prevention

P210	Keep away from heat, hot surfaces, sparks,open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash contact area thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

P312	Call a POISON CENTER/doctor,if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use dry chemical, carbon dioxide or alcohol-resistant foam to extinguish.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.

Section 3 Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
Ethyl acetate	99.8	141-78-6	205-500-4

Section 4 First Aid Measures

> Description of First Aid Measures

General Advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin Contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of First-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

> Most Important Symptoms and Effects, both Acute and Delayed

1 Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

> Indication of Any Immediate Medical Attention and Special Treatment Needed

1 Treat symptomatically.
2 Symptoms may be delayed.

Section 5 Fire Fighting Measures

> Extinguishing Media

Suitable Extinguishing Media	Dry chemical, carbon dioxide or alcohol-resistant foam.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter or spread fire.

> Specific Hazards Arising from the Substance or Mixture

1 Will form explosive mixtures with air.
2 Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration.
3 Vapours may travel to source of ignition and flash back.
4 Liquid and vapour are flammable.
5 Containers may explode when heated.
6 Fire exposed containers may vent contents through pressure relief valves.
7 May expansion or decompose explosively when heated or involved in fire.

> Advice for Firefighters

1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent)and full protective gear.
2 Fight fire from a safe distance, with adequate cover.
3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

> Personal Precautions, Protective Equipment and Emergency Procedures

Section 6 Accidental Release Measure

1 Avoid breathing vapors and contacting with skin and eye.
2 Beware of vapours accumulating to form explosive concentrations.
3 Vapours can accumulate in low areas.
4 Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
5 Ensure adequate ventilation. Remove all sources of ignition.
6 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
7 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

> Environmental Precautions

1 Prevent further leakage or spillage if safe to do so.
2 Discharge into the environment must be avoided.

> Methods and Materials for Containment and Cleaning Up

1 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
2 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Section 7 Handling and Storage

> Precautions for Handling

1 Avoid inhalation of vapors.
2 Use only non-sparking tools.
3 To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
4 Use explosion proof equipment.
5 Handling is performed in a well ventilated place.
6 Wear suitable protective equipment.
7 Avoid contact with skin and eyes.
8 Keep away from heat/sparks/open flames/ hot surfaces.
9 Take precautionary measures against static discharges.

> Precautions for Storage

1 Keep containers tightly closed.
2 Keep containers in a dry, cool and well-ventilated place.
3 Keep away from heat/sparks/open flames/ hot surfaces.
4 Store away from incompatible materials and foodstuff containers.

Section 8 Exposure Controls/Personal Protection

> Control Parameters

Occupational Exposure Limit Values

Component	Country/Region	Limit Value - Eight Hours		Limit Value - Short Term	
		ppm	mg/m³	ppm	mg/m³
Ethyl acetate 141-78-6	USA - OSHA	400	1400	-	-
	South Korea	400	1400	-	-
	Ireland	200	-	400	-
	Germany (AGS)	400	1500	800	3000
	Denmark	150	540	300	1080
	Australia	200	720	400	1440

Biological Limit Values

No information available

Monitoring Methods

1 EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

2 GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 300 Determination of toxic substances in workplace air(Series standard).

> Engineering Controls

1 Ensure adequate ventilation, especially in confined areas.

2 Ensure that eyewash stations and safety showers are close to the workstation location.

3 Use explosion-proof electrical/ventilating/lighting/equipment.

4 Set up emergency exit and necessary risk-elimination area.

> Personal Protection Equipment

Eye Protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand Protection	Wear protective gloves (such as butyl rubber) , passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.
Respiratory protection	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.
Skin and Body Protection	Wear fire/flame resistant/retardant clothing and antistatic boots.

Section 9 Physical and Chemical Properties

Appearance: Colorless transparent liquid

Odor: No information available

Odor Threshold: No information available

pH: No information available

Melting Point/Freezing Point (℃): -84

Initial Boiling Point and Boiling Range (℃): 77

Flash Point (℃)(Closed Cup): -4

Evaporation Rate: No information available

Flammability: Not applicable

Upper/lower explosive limits[%(v/v)]: Upper limit: 11.5; Lower limit: 2.2

Vapor Pressure (KPa): 10

Relative Vapour Density(Air=1): 3.0

Relative Density(Water=1): 0.9

Solubility: Insoluble in water

n-Octanol/Water Partition Coefficient: 0.73

Auto-Ignition Temperature(℃): 427

Decomposition Temperature (℃): No information available

Kinematic Viscosity (mm²/s): No information available

Particle characteristics: Not applicable

Section 10 Stability and Reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical Stability	Stable under proper operation and storage conditions.
Possibility of Hazardous Reactions	In contact with metal alkoxides may cause a fire.
Conditions to Avoid	Incompatible materials, heat, flame and spark.
Incompatible Materials	Metal alkyl oxide, metal hydride, inorganic peroxide, nitrate and halogens oxyacid salts.
Hazardous Decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 Toxicological Information

> Acute Toxicity

Component	CAS No.	LD_{50}(Oral)	LD_{50}(Dermal)	LC_{50}(Inhalation, 4h)
Ethyl acetate	141-78-6	5620mg/kg(Rat)	No information available	No information available

> Skin Corrosion/Irritation

No information available

> Serious Eye Damage/Irritation

Causes serious eye irritation(Category 2A)(Ethyl acetate)

> Skin Sensitization

No information available

> Respiratory Sensitization

No information available

> Germ Cell Mutagenicity

No information available

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	141-78-6	Ethyl acetate	Not Listed	Not Listed

> Reproductive Toxicity

No information available

> Reproductive Toxicity (Additional)

No information available

> STOT-Single Exposure

May cause drowsiness or dizziness(Category 3)(Ethyl acetate)

> STOT-Repeated Exposure

No information available

> Aspiration Hazard

No information available

Section 12 Ecological Information

> Acute Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae
Ethyl acetate	141-78-6	LC_{50}: 328mg/L (96h)(Fish)	No information available	ErC_{50}: 2500mg/L (96h)

> Chronic Aquatic Toxicity

No information available

> Others

Persistence and Degradability	No information available
Bioaccumulative Potential	No information available
Mobility in Soil	No information available
Results of PBT and vPvB Assessment	Ethyl acetate does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Section 13 Disposal Considerations

Waste Chemicals	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
Contaminated Packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Disposal Recommendations	Refer to section 13.1and 13.2.

Section 14 Transport Information

Transporting Label

Marine pollutant	None
UN Number	1173

UN Proper Shipping Name	ETHYL ACETATE
Transport Hazard Class	3
Transport Subsidiary Hazard Class	NONE
Packing Group	II

Section 15 Regulatory Information

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Ethyl acetate	√	√	√	√	√	√	√	√	√

【EINECS】 European Inventory of Existing Commercial Chemical Substances.
【TSCA】 United States Toxic Substances Control Act Inventory.
【DSL】 Canadian Domestic Substances List.
【IECSC】 China Inventory of Existing Chemical Substances.
【NZIoC】 New Zealand Inventory of Chemicals.
【PICCS】 Philippines Inventory of Chemicals and Chemical Substances.
【KECI】 Existing and Evaluated Chemical Substances.
【AICS】 Australia Inventory of Chemical Substances.
【ENCS】 Existing And New Chemical Substances.

Note
"√" Indicates that the substance included in the regulations
"×" That no data or included in the regulations

Section 16 Additional Information

Creation Date	2020/04/17
Revision Date	2020/04/17
Reason for Revision	-

> Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 7th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user' s reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

ETIL ACETATO 99,96%

March, 2021
Esp.

PRODUCTO: ETIL ACETATO
CAS Nº: 141-78-6
UN Nº: 1173

DESCRIPCIÓN: Se trata de un solvente de evaporación rápida, bajo punto de ebullición y bastante inerte.

CARACTERÍSTICAS:

- Rápida evaporación
- Altamente miscible con otros solvents orgánicos communes.
- Solubilidad: ligeramente soluble en agua, soluble en alcohol, cetona, eter, chloroformo y otros sloventes orgánicos.

Propiedades	**CARACTERIZACIÓN**		**Resultados**
	Superior	**Calificado**	
Apariencia	Líquido transparente, sin impurezas visibles		Calificado
Etil Acetato, %(m/m) ≤	99,8	99,5	99,9
Etanol, %(m/m) ≤	0,05	0,10	0,0012
Acidez (Acido Acético), %(m/m) ≤	0,003	0,004	0,001
Humedad, %(m/m) ≤	0,04	0,05	0,012
Residuos de evaporación, %(m/m) ≤	0,001	0,001	0,001
Densidad (20ºC)(g/cm3)	0,897 – 0,902		0,900
Cromaticidad (En Hazen)(Pt-Co) ≤	10		5

Propiedades Físicas	**Valor**
Apariencia	Líquido transparente e incoloro.
Olor	Ester, característico, levemente dulce
Punto de Fusión/Punto de congelamiento(Cº)	-83,6
Punto de inflamabilidad (Cº)(Copa cerrada)	-4
Punto de ebullición inicial y rango de ebullición(Cº)	77,2
Límite inferior de explosividad% (V/V)	2,0
Límite superior de explosividad % (V/V)	12,8
Densidad de Vapor (g/mL)	3,04
Temperatura de Auto encendido (Cº)	470
Coeficiente de partición octano / agua	0,73
Densidad relativa(g/cm3)	0,9 (20ºC)

Seguridad quimica:

Inflamable Irritante

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AN INDUSTRI

TECHNICAL DATA SHEET

Revision: December 2017
Valid until next revision.

PVC EMULSION RESIN – P440

Product description

This middle molecular weight Polyvinyl Chloride Homopolymer is White and free-flowing resin poder, produced by emulsion polymerization. It can easily blend with variety of additives to achieve desired qualities needed in many applications. It shows middle to low viscosity and pseudoplastic behavior at high share rate. Good transparency and coloration acceptance.

Main applications

For low and soft foaming, matt Surface. Middle to soft touch synthetic leather

Physical properties

Property	Test Method	Typical Value	Unit
Outlook	-	White Micro powder	-
Polymerization degree	-	1500	-
K-Value	DIN 53726	75	-
Volatile content	ISO-1269	≤ 0.4	%
Apparent density	ASTM D1895	0.2 ~ 0.4	g/cm³
Screening	-	≤ 0.1	%
BF Viscosity		5000	mpa.s
NF		<100	μm

Packing

Paper bag 20kg. With or without pallet

Storage

- Use with adequate ventilation. Avoid contact with eyes and skin. Good housekeeping measures should be used and
- accumulations of materials should be removed from settling areas.
- Polyvinyl Chloride can acquire a substantial static electrical charge. Handling and processing equipment should have an electrical grounding.
- Store and handle in accordance with all current regulations and standards. Container tightly closed and properly labeled. Store in a cool, dry area. Store in a well-ventilated area. Avoid heat, flames, sparks and other sources of ignition.

Safety

This product is not classified as hazardous

Technical contact

For further thechnical information the contact details are showed below

Shanghai Tiran Industrial Co., Ltd. - Jurong Zhengda Machinery Co., Ltd.
Seat701, Building1, Liando U Valley, NO.69 Yuanfeng Road, Baoshan City industrial Park, Baoshan district, Shanghai, China
Email: sebastian@tiranchina.com / sales@tiranchina.com - TEL: +86 21 6094 1102 FAX:+86 21 6094 3200

TECHNICAL DATA SHEET

Revision: December 2017
Valid until next revision.

PVC EMULSION RESIN – P450

Product description

This middle molecular weight Polyvinyl Chloride Homopolymer is White and free-flowing resin poder, produced by emulsion polymerization. It can easily blend with variety of additives to achieve desired qualities needed in many applications. It shows middle viscosity and pseudoplastic behavior at high share rate. Good transparency and coloration acceptance.

Main applications

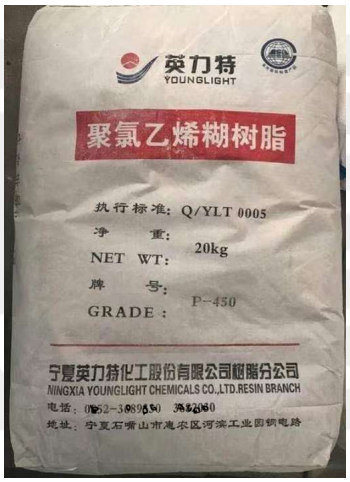
For high foaming, shinning surface. Skin later with middle to hard touch synthetic leather. Pvc floor

Physical properties

Property	Test Method	Typical Value	Unit
Outlook	-	White Micro powder	-
Polymerization degree	-	1000	-
K-Value	DIN 53726	65	-
Volatile content	ISO-1269	≤ 0.4	%
Apparent density	ASTM D1895	0.2 ~ 0.4	g/cm³
Screening	-	≤ 0.1	%
BF Viscosity		7000	mpa.s
NF		<100	μm

Packing

Paper bag 20kg. With or without pallet



Storage

- Use with adequate ventilation. Avoid contact with eyes and skin. Good housekeeping measures should be used and
- accumulations of materials should be removed from settling areas.
- Polyvinyl Chloride can acquire a substantial static electrical charge. Handling and processing equipment should have an electrical grounding.
- Store and handle in accordance with all current regulations and standards. Container tightly closed and properly labeled. Store in a cool, dry area. Store in a well-ventilated area. Avoid heat, flames, sparks and other sources of ignition.

Safety

This product is not classified as hazardous

Technical contact

For further thechnical information the contact details are showed below

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TECHNICAL DATA SHEET

Revision: December 2017
Valid until next revision.

PVC EMULSION RESIN – PB 1302

Product description

This middle molecular weight Polyvinyl Chloride Homopolymer is White and free-flowing resin poder, produced by emulsion polymerization. It can easily blend with variety of additives to achieve desired qualities needed in many applications. It shows middle to low viscosity and pseudoplastic behavior at high share rate. Good transparency and coloration acceptance.

Main applications

For low foaming. Transparent synthetic leather

Physical properties

Property	Test Method	Typical Value	Unit
Outlook	-	White Micro powder	-
Polymerization degree	-	1183	-
K-Value	DIN 53726	71.9	-
Volatile content	ISO-1269	≤ 0.4	%
Apparent density	ASTM D1895	0.2 ~ 0.4	g/cm³
Screening	-	≤ 0.1	%
BF Viscosity		5000	mpa.s
NF		<100	μm

Packing

Paper bag 25kg. With or without pallet

Storage

- Use with adequate ventilation. Avoid contact with eyes and skin. Good housekeeping measures should be used and
- accumulations of materials should be removed from settling areas.
- Polyvinyl Chloride can acquire a substantial static electrical charge. Handling and processing equipment should have an electrical grounding.
- Store and handle in accordance with all current regulations and standards. Container tightly closed and properly labeled. Store in a cool, dry area. Store in a well-ventilated area. Avoid heat, flames, sparks and other sources of ignition.

Safety

This product is not classified as hazardous

Technical contact

For further thechnical information the contact details are showed below

Shanghai Tiran Industrial Co., Ltd. - Jurong Zhengda Machinery Co., Ltd.
Seat701, Building1, Liando U Valley, NO.69 Yuanfeng Road, Baoshan City industrial Park, Baoshan district, Shanghai, China
Email: sebastian@tiranchina.com / sales@tiranchina.com - TEL: +86 21 6094 1102 FAX:+86 21 6094 3200

TECHNICAL DATA SHEET

Revision: December 2017
Valid until next revision.

PVC EMULSION RESIN – PB 1156

Product description

This middle molecular weight Polyvinyl Chloride Homopolymer is White and free-flowing resin poder, produced by emulsion polymerization. It can easily blend with variety of additives to achieve desired qualities needed in many applications. It shows middle viscosity and pseudoplastic behavior at high share rate. Good transparency and coloration acceptance.

Main applications

For high foaming synthetic leather. PVC Floor

Physical properties

Property	Test Method	Typical Value	Unit
Outlook	-	White Micro powder	-
Polymerization degree	-	1065	-
K-Value	DIN 53726	66.9	-
Volatile content	ISO-1269	≤ 0.4	%
Apparent density	ASTM D1895	0.2 ~ 0.4	g/cm³
Screening	-	≤ 0.1	%
BF Viscosity		7000	mpa.s
NF		<100	μm

Packing

Paper bag 25kg. Whit or whitout pallet

Storage

- Use with adequate ventilation. Avoid contact with eyes and skin. Good housekeeping measures should be used and
- accumulations of materials should be removed from settling areas.
- Polyvinyl Chloride can acquire a substantial static electrical charge. Handling and processing equipment should have an electrical grounding.
- Store and handle in accordance with all current regulations and standards. Container tightly closed and properly labeled. Store in a cool, dry area. Store in a well-ventilated area. Avoid heat, flames, sparks and other sources of ignition.

Safety

This product is not classified as hazardous

Technical contact

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TECHNICAL DATA SHEET

Revision: December 2018
Valid until next revision.

PVC SUSPENSION RESIN – SG 3

Product description

Pvc Resin widely application field of plastic varieties, agriculture and daily life, in industry,packing, electric power, construction,public utilities and other fields have a wide range of applications.it have excellent fire resistance, integrated machinery, resistance to chemical corrosion, abrasion resistance,product transparency, electrical insulation and easy processing characteristics, at present, the PVC has become one of the most

Main applications

Calenderig, extrusion and coating process to make soft pvc products.

Physical properties

Property	Typical Value	Unit
Outlook	White Micro powder	-
Viscosity	127-135	mg/g
K-Value	71-72	-
Degree of polymerization	1251-1370	-
Number of impurity particles	30 max	-
Volatile content	0,40 max	%
Apearing density	0,42 min	g/ml
Particle size – 0,25mm Sieve	2 max	%
Particle size – 0,063mm Sieve	90 min	%
Number of fish eyes/ 400cm2	40 max	
Plasticizer absorbency of 100g resin	25 min	g
Whiteness	74min	%
Residual Chlore thylene content	5max	mg/kg
Ethylidene chloride	150max	mg/kg

Packing

Paper bag 25kg. Whit or whitout pallet

Storage

- Use with adequate ventilation. Avoid contact with eyes and skin. Good housekeeping measures should be used and
- accumulations of materials should be removed from settling areas.
- Polyvinyl Chloride can acquire a substantial static electrical charge. Handling and processing equipment should have an electrical grounding.
- Store and handle in accordance with all current regulations and standards. Container tightly closed and properly labeled. Store in a cool, dry area. Store in a well-ventilated area. Avoid heat, flames, sparks and other sources of ignition.

Safety

This product is not classified as hazardous

Technical contact

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TECHNICAL DATA SHEET

Revision: December 2018
Valid until next revision.

PVC SUSPENSION RESIN – SG 5

Product description

Pvc Resin widely application field of plastic varieties, agriculture and daily life, in industry,packing, electric power, construction,public utilities and other fields have a wide range of applications.it have excellent fire resistance, integrated machinery, resistance to chemical corrosion, abrasion resistance,product transparency, electrical insulation and easy processing characteristics, at present, the PVC has become one of the most

Main applications

Calenderig, extrusion and coating process to make soft pvc products.

Physical properties

Property	Typical Value	Unit
Outlook	White Micro powder	-
Viscosity	107-118	mg/g
K-Value	66-68	-
Degree of polymerization	981-1135	-
Number of impurity particles	30 max	-
Volatile content	0,40 max	%
Apearing density	0,42 min	g/ml
Particle size – 0,25mm Sieve	2 max	%
Particle size – 0,063mm Sieve	90 min	%
Number of fish eyes/ 400cm2	40 max	
Plasticizer absorbency of 100g resin	19 min	g
Whiteness	74min	%
Residual Chlore thylene content	5max	mg/kg
Ethylidene chloride	150max	mg/kg

Packing

Paper bag 25kg. Whit or whitout pallet

Storage

- Use with adequate ventilation. Avoid contact with eyes and skin. Good housekeeping measures should be used and
- accumulations of materials should be removed from settling areas.
- Polyvinyl Chloride can acquire a substantial static electrical charge. Handling and processing equipment should have an electrical grounding.
- Store and handle in accordance with all current regulations and standards. Container tightly closed and properly labeled. Store in a cool, dry area. Store in a well-ventilated area. Avoid heat, flames, sparks and other sources of ignition.

Safety

This product is not classified as hazardous

Technical contact

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東喜實業
TIRAN INDUSTRIAL

TECHNICAL DATA SHEET

Revision:
Valid until next revision.

PU/PVC release paper Join Tape

Product description

As the backing material, the tape is made of singled-coated heat resistance film of organic silicon pressure-sensitive adhesive, including single fluorine plastic material. It can reach the coating accuracy ±2μm, without scratch and wire-drawing phenomenon. It has shearing ability; easily blunt type dies cutting processing; and excellent resistance to high temperature and organic solvents, in accordance to REACH and ROHS Standard of Environmental Protection.

Main applications

Used for jointing release paper for PU/PVC leather production. It is applied on the releasing surface of Paper.
After adhering the tape on release paper, please iron or press it to dry air away, so the tape will not swell under high temperature.

Physical properties

CODE	Material	Standard size			Characteristics			
		Thick (mm)	Width (mm)	Length (m)	Peeling strength (N/25mm)	Breaking strength (Mpa)	Elongation %	Temperature □/30min
KF50-40	Silica gel	0.09	Tailor-made	33-66	7.0	≥18	30	200

Packing

Depends on the selected size of the product.

Storage

- Store and handle in accordance with all current regulations and standards. Container tightly closed and properly labeled. Store in a cool, dry area.
- Keep the product in its original container until the moment of use

Safety

This product is not classified as hazardous

Technical contact

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TIRAN INDUSTRIAL

TECHNICAL DATA SHEET

Revision:
Valid until next revision.

Self adhesive Kraft Tape

Product description

Joint tape for release paper for PU/PVC leather production, high temperature-resistance, strong bonding, self-adhesive.

Main applications

Used for jointing release paper for PU/PVC leather production. It is applied on the back side of Release Paper.

Physical properties

Thickness: 12 microns
Width: 92mm
Length: 35 meters
Paper core size: 3 inches

Packing

48 rolls per carton.

Storage

- Store and handle in accordance with all current regulations and standards. Container tightly closed and properly labeled. Store in a cool, dry area.
- Keep the product in its original container until the moment of use

Safety

This product is not classified as hazardous

Technical contact

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TECHNICAL DATA SHEET

Revision: July 2021
Valid until next revision.

Circular Knitted Single Jersey, Beige

Product description

Single Jersey, circular knitted
Weight: 90gs/sqm
Width: 1,50 width,
Thickness: 0,31-0,35mm
Color: Dyed Beige
Composition: 100% polyester yarn

Main applications

Physical properties

Product	90GSM， 1.5mtr， 0.31-0.35mm， Beige						
Test result	Project		Unit	Request	allowable error	Average	Result
	Mass per unit		g/m2	90	±5	90	Pass
	Thickness		mm	0.31-0.35		0.3	Pass
	Breaking strength	Lengthways	N/30mm		≥	196.9	Pass
		Crosswise	N/30mm		≥	93.1	Pass
	Elongation	Lengthways	%		≥	51.71	Pass
		Crosswise	%		≥	191.01	Pass
	Tear strength	Lengthways	N/50mm		≥	32.8	Pass
		Crosswise	N/50mm		≥	24	Pass
	Heat shrinkage	Lengthways	%	5	≤	4.02	Pass
		Crosswise	%	5	≤	5.03	Pass

Packing

300m rolls average.

Storage

- Store and handle in accordance with all current regulations and standards. Container tightly closed and properly labeled. Store in a cool, dry area.
- Keep the product in its original container until the moment of use

Safety

This product is not classified as hazardous

Technical contact

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東喜實業
TIRAN INDUSTRIAL

TECHNICAL DATA SHEET

Revision: July 2021
Valid until next revision.

Circular Knitted Single Jersey, White

Product description

Single Jersey, circular knitted
Weight: 90gs/sqm
Width: 1,50 width,
Thickness: 0,31-0,35mm
Color: white
Composition: 100% polyester yarn

Main applications

Physical properties

Product	90GSM，1.5mtr，0.31-0.35mm，White						
Test result	Project		Unit	Request	allowable error	Average	Result
	Mass per unit		g/m2	90	±5	90	Pass
	Thickness		mm	0.31-0.35		0.31	Pass
	Breaking strength	Lengthways	N/30mm		≥	203.9	Pass
		Crosswise	N/30mm		≥	56.1	Pass
	Elongation	Lengthways	%		≥	45.79	Pass
		Crosswise	%		≥	205.16	Pass
	Tear strength	Lengthways	N/50mm		≥	20.5	Pass
		Crosswise	N/50mm		≥	18.3	Pass
	Heat shrinkage	Lengthways	%	5	≤	1. 99	Pass
		Crosswise	%	5	≤	3. 54	Pass

Packing

300m rolls average.

Storage

- Store and handle in accordance with all current regulations and standards. Container tightly closed and properly labeled. Store in a cool, dry area.
- Keep the product in its original container until the moment of use

Safety

This product is not classified as hazardous

Technical contact

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TECHNICAL DATA SHEET

Revision: July 2021
Valid until next revision.

Circular Knitted SPUN Single Jersey, White

Product description

Single Jersey, circular knitted
Weight: 80gs/sqm
Width: 1,50 width,
Thickness: 0,27mm
Color: white
Composition: 30/1 SPUN polyester yarn

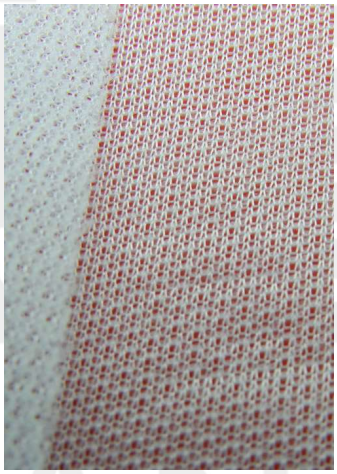
Main applications

Physical properties

Product	1.5MTR,80GSM,White jersey spun						
Test result	Project		Unit	Request	allowable error	Average	Result
	Mass per unit		g/m2	80	±5	80	Pass
	Thickness		mm		±0.05	0.27	Pass
	Breaking strength	Lengthways	N/30mm		≥	148	Pass
		Crosswise	N/30mm		≥	161	Pass
	Elongation	Lengthways	%		≥	117.47	Pass
		Crosswise	%		≥	109.29	Pass
	Tear strength	Lengthways	N/50mm		≥	22.2	Pass
		Crosswise	N/50mm		≥	20.4	Pass
	Heat shrinkage	Lengthways	%	5	≤	1.89	Pass
		Crosswise	%	5	≤	3.8	Pass

Packing

300m rolls average.



Storage

- Store and handle in accordance with all current regulations and standards. Container tightly closed and properly labeled. Store in a cool, dry area.
- Keep the product in its original container until the moment of use

Safety

This product is not classified as hazardous

Technical contact

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TECHNICAL DATA SHEET

Revision: July 2021
Valid until next revision.

Release paper - KL-957A-2 SH, Middle designs

Product description

High temperature for PU/PVC synthetic leather production.

Physical properties

INTERNAL METHOD : Q/KL 101-2017

WEIGHT : 218 + 5 g/m2 , by CHINA NATIONAL STANDARD METHOD GB/T 451.2

APPLICATION OF TEMPERATURE : 200 - 220 ℃ , by CHINA NATIONAL STANDARD METHOD GB/T 16582-2008

RELEASE VALUE (180 degree) : 12.0 N/M, by CHINA NATIONAL STANDARD METHOD GB/T 8808-1988

HUMIDITY : 3.5 % + 0.5 %, by CHINA NATIONAL STANDARD METHOD GB/T 462

APPLICATION RANGE : PU , SEMI PU/ PVC, PVC LEATHER.

The technical data sheet shall be deemed accepted if no comments within one month of receipt.
Issued Date : July 2021
Period of Validity : Until Next Update
Our internal method Q/KL 101-2017 is based upon the CHINA NATIONALSTANDARD METHOD GB/T SERIES as indicated, but could vary in some details.
The above data have been agreed in good faith and tested to the best of our knowledge,but we cannot guarantee the results of further reprocessing that are beyond our control.
We recommend that the Customers, in all cases, evaluate if the characteristics of ourpaper fit their actual needs and the requirements of the process and final products.

Packing

Storage

- Store and handle in accordance with all current regulations and standards. Container tightly closed and properly labeled. Store in a cool, dry area.
- Keep the product in its original container until the moment of use

Safety

This product is not classified as hazardous

Technical contact

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TECHNICAL DATA SHEET

Revision: July 2020
Valid until next revision.

DOP – dioctyl phtalate

Product description

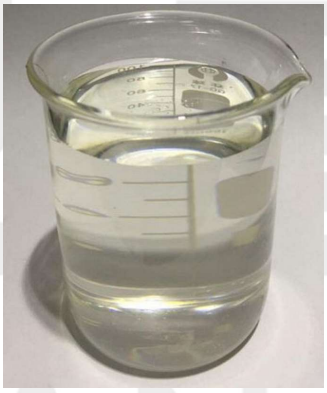
- Cas Nº : 117-84-0
- Widely used in PVC, vinyl chloride copolymer, cellulose resin processing, manufacturing film, artificial leather, wire and cable sheet, sheet, molding products, plasticizing paste.
- Product can also be used as a softener for synthetic rubber such as nitrile butadiene rubber, which can improve the resilience of the

Physical properties

No	Inspection index	Superior product	Top quality product	Qualified product	Test results
1	Chroma (platinum-cobalt) no	≤30	≤40	≤60	25
2	Purity %	≥99.5	≥99.0	≥99.0	99.6
3	Density (20°) g/cm3	0.982-0.988	0.982-0.988	0.982-0.988	0.984
4	Acidity (in phthalates) %	≤0.010	≤0.015	≤0.030	0.003
5	Point of flammability °C	≥196	≥192	≥192	203
6	Wet %	≤0.10	≤0.15	≤0.15	0.03
7	Volume resistivity ×1010Ω.m	≥1.0			2.3

Packing

- 200Kg Steel drum
- 1000Kg. IBC container
- 22TN Flexibag



Storage

- Store and handle in accordance with all current regulations and standards. Container tightly closed and properly labeled. Store in a cool, dry area.
- Keep the product in its original container until the moment of use. In case of purchasing by Flexibag container it must be discharged to clean and proper local packing.

Safety

This product is not classified as hazardous

Technical contact

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TIRAN INDUSTRIAL

TECHNICAL DATA SHEET

Revision: July 2020
Valid until next revision.

DOTP – Dioctyl Terephtalate

Product description

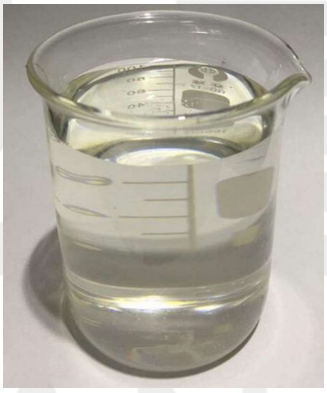
- Cas Nº : 6422-86-2
- Widely used in PVC, vinyl chloride copolymer, cellulose resin processing, manufacturing film, artificial leather, wire and cable sheet, sheet, molding products, plasticizing paste.
- Mainly used to produce plastic materials whit “Phatalate Free” features, as well as Food Grade containers.

Physical properties

ITEM	STANDARD
Color Shade (Pt-Co) max	50
Density (20ºC, g/cm3)	0,976-0,986

Packing

- 200Kg Steel drum
- 1000Kg. IBC container
- 22TN Flexibag



Storage

- Store and handle in accordance with all current regulations and standards. Container tightly closed and properly labeled. Store in a cool, dry area.
- Keep the product in its original container until the moment of use. In case of purchasing by Flexibag container it must be discharged to clean and proper local packing.

Safety

This product is not classified as hazardous

Technical contact

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POLYESTER PU SYSTEM

Application:

SHOE OUTSOLE

東喜實業 TIRAN INDUSTRIAL

TR-P-5180/ TR-I-5118

1. 特性：中、高硬度。
   Characteristics: Medium to high hardness.
2. 用途：适用于男鞋、女鞋的生产。
   Applications: For man/woman shoes.
3. 原液特性：
   Typical properties of PU resin:

品　名 Name of products	外　观 Appearance (40℃)	粘　度 Viscosity (mPa·s/40℃)	密　度 Density (g/cm³/40℃)	包　装 Package (kg)
JF-P-5180	液状或蜡状 Liquid or waxy	500～900	1.16～1.18	18（Net） 蓝标签 Blue label
JF-I-5118	透明液体，无异物 Transparent and pure liquid	200～500	1.18～1.20	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalysts & Additives:
   JF-C-001的加入量为240g±5g/18kg。
   The adding amount of JF-C-001 should be 240g±5g/18kg.

5. 成型条件及物性值：Typical processing parameters&Typical Properties:

反应性 Reaction characteristics	技术参数 Technical parameters	项　目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/120～122	成型密度 Molded density（g/cm³）		0.55～0.60
使用温度 Material Temperature（℃）	38～42/38～42	硬度 Hardness（23℃）	A型Asker A	60～75
			C型Asker C	75～85
乳白时间 Cream time（s）	7～10	拉伸强度 Tensile strength（MPa）		≥6.0
升起时间 Rise time（s）	32～42	伸长率 Elongation（%）		≥350
自由泡密度 Free rise foam density（g/cm³）	0.25～0.30	撕裂强度 Tear strength（kN/m）		≥25.0
金属模具温度 Mold temperature（℃）	45～55	耐折性（-10℃）Flexing resistance（-10℃） （裂口长度，mm）(Breakage length,mm)		无裂痕 No crack
脱模时间 Demould time（min）	5～7	NBS耐磨（%）NBS abrasion resistance（%） （预除表皮后数据）(The data after remove the cuticle)		≥20

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature&humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
●该物性数据是对6 mm厚的试验片测试获得的数据。
These physical data are acquired by testing a sample of 6mm thick.
●以上数据仅作参考，具体数据以实际操作为准。如需其他物性指标，请与我公司联系。
Data listed above are just for reference, The detail data are subject to practice operation. If other request on Physical properties, please contact us.

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東喜實業 TIRAN INDUSTRIAL

TR-P-5675/ TR-I-5118

1. 特性：中硬度。
   Characteristics: Medium hardness.
2. 用途：男女皮鞋、休闲鞋的生产。
   Applications: For man/woman shoes and casual shoes.
3. 原液特性：
   Typical properties of PU resin:

品　名 Name of products	外　观 Appearance (40℃)	粘　度 Viscosity (mPa·s/40℃)	密　度 Density (g/cm³/40℃)	包　装 Package (kg)
JF-P-5675	液状或蜡状 Liquid or waxy	900～1400	1.16～1.18	18（Net） 蓝标签 Blue label
JF-I-5118	透明液体，无异物 Transparent and pure liquid	200～500	1.18～1.20	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalysts & Additives:
   JF-C-001的加入量为240g±5g/18kg。
   The adding amount of JF-C-001 should be 240g±5g/18kg.

5. 成型条件及物性值：Typical processing parameters & Typical Properties:

反应性 Reaction characteristics	技术参数 Technical parameters	项　目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/100～105	成型密度 Molded density（g/cm³）		0.55～0.60
使用温度 Material Temperature（℃）	38～42/38～42	硬度 Hardness（23℃）	A 型Asker A	57～62
			C 型Asker C	70~75
乳白时间 Cream time（s）	7～9	拉伸强度 Tensile strength （MPa）		≥6.5
升起时间 Rise time（s）	28～30	伸长率 Elongation （%）		≥450
自由泡密度 Free rise foam density（g/cm³）	0.26～0.30	撕裂强度 Tear strength （kN/m）		≥25. 0
金属模具温度 Mold temperature（℃）	45～55	耐折性（-10℃）Flexing resistance（-10℃） （裂口长度，mm）(Breakage length,mm)		无裂痕 No crack
脱模时间 Demould time（min）	4～5	NBS耐磨（%）NBS abrasion resistance （%） （预除表皮后数据）(The data after remove the cuticle)		≥20

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature & humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
●该物性数据是对6 mm厚的试验片测试获得的数据。
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Shanghai Tiran Industrial Co., Ltd. - Jurong Zhengda Machinery Co., Ltd.
Seat701, Building1, Liando U Valley, NO.69 Yuanfeng Road, Baoshan City industrial Park, Baoshan district, Shanghai, China
Email: sebastian@tiranchina.com / sales@tiranchina.com - TEL: +86 21 6094 1102 FAX:+86 21 6094 3200

東喜實業 TIRAN INDUSTRIAL

TR-P-6760/ TR-I-6722

1. 特性：中低硬度、高流动性。
   Characteristics: Medium to low hardness, high fluidity.
2. 用途：休闲鞋、旅游鞋的生产。
   Applications: For casual shoes and sporting shoes.
3. 原液特性：
   Typical properties of PU resin:

品　名 Name of products	外　观 Appearance (40℃)	粘　度 Viscosity (mPa·s/40℃)	密　度 Density (g/cm³/40℃)	包　装 Package (kg)
JF-P-6760	液状或蜡状 Liquid or waxy	1000～1500	1.14～1.18	18（Net） 蓝标签 Blue label
JF-I-6722	透明液体，无异物 Transparent and pure liquid	200～300	1.18～1.20	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalysts & Additives:
   JF-C-001的加入量为240g±5g/18kg，水的加入量为20g±5g/18kg。
   The adding amount of JF-C-001 should be 240g±5g/18kg, the adding amount of water should be 20g±5g/18kg.

5. 成型条件及物性值：Typical processing parameters& Typical Properties:

反应性 Reaction characteristics	技术参数 Technical parameters	项　目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/75~78	成型密度 Molded density（g/cm³）		0.55～0.60
使用温度 Material Temperature（℃）	38～42/38～42	硬度 Hardness（23℃）	A 型Asker A	40～45
			C 型Asker C	55~60
乳白时间 Cream time（s）	5～6	拉伸强度 Tensile strength （MPa）		≥6.0
升起时间 Rise time（s）	24～30	伸长率 Elongation （%）		≥300
自由泡密度 Free rise foam density（g/cm³）	0.26～0.28	撕裂强度 Tear strength （kN/m）		≥30. 0
金属模具温度 Mold temperature（℃）	35～55	耐折性（-10℃）Flexing resistance（-10℃） （裂口长度，mm）(Breakage length,mm)		无裂痕 No crack
脱模时间 Demould time（min）	4～5	NBS耐磨（%）NBS abrasion resistance （%） （预除表皮后数据）(The data after remove the cuticle)		≥15

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature & humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
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東喜實業 TIRAN INDUSTRIAL

TR-P-6881/ TR-I-6120

1. 特性：中、高硬度，低模温成型。
Characteristics: Medium to high hardness, molded at low mold temperature.
2. 用途：男女皮鞋、休闲鞋的生产。
Applications: For man/woman shoes casual shoes.
3. 原液特性：
Typical properties of PU resin:

品　名 Name of products	外　观 Appearance (40℃)	粘　度 Viscosity (mPa·s/40℃)	密　度 Density (g/cm³/40℃)	包　装 Package (kg)
JF-P-6881	液状或蜡状 Liquid or waxy	800～1200	1.14～1.18	18（Net） 蓝标签 Blue label
JF-I-6120	透明液体，无异物 Transparent and pure liquid	200～500	1.18～1.20	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalysts & Additives
JF-C-001的加入量为300g±5g/18kg，水的加入量为20g±5g/18kg。
The adding amount of JF-C-001 should be 300g±5g/18kg, the adding amount of water should be 20g±5g/18kg.

5. 成型条件及物性值：Typical processing parameters& Typical Properties:

反应性 Reaction characteristics	技术参数 Technical parameters	项　目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/105～110	成型密度 Molded density（g/cm³）		0.55～0.60
使用温度 Material Temperature（℃）	38～42/38～42	硬度 Hardness（23℃）	A 型Asker A	70～75
			C 型Asker C	80～85
乳白时间 Cream time（s）	5～6	拉伸强度 Tensile strength（MPa）		≥6.0
升起时间 Rise time（s）	28～30	伸长率 Elongation（%）		≥300
自由泡密度 Free rise foam density（g/cm³）	0.26～0.28	撕裂强度 Tear strength（kN/m）		≥30.0
金属模具温度 Mold temperature（℃）	35～55	耐折性（0℃）Flexing resistance（0℃） （裂口长度，mm）(Breakage length,mm)		无裂痕 No crack
脱模时间 Demould time（min）	4～5	NBS耐磨（%）NBS abrasion resistance（%） （预除表皮后数据）(The data after remove the cuticle)		≥15

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature& humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
●该物性数据是对6 mm厚的试验片测试获得的数据。
These physical data are acquired by testing a sample of 6mm thick.
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東喜實業 TIRAN INDUSTRIAL

TR-P-8075/ TR-I-9818

1. 特性：软质、中高密度。
   Characteristics: Medium hardness.
2. 用途：沙滩鞋、连帮鞋的生产。
   Applications: For beach shoes and direct injection shoes.
3. 原液特性：
   Typical properties of PU resin:

品　名 Name of products	外　观 Appearance (40℃)	粘　度 Viscosity (mPa・s/40℃)	密　度 Density (g/cm³/40℃)	包　装 Package (kg)
JF-P-8075	液状或蜡状 Liquid or waxy	1500~1900	1.14~1.18	18（Net） 蓝标签 Blue label
JF-I-9818	透明液体，无异物 Transparent and pure liquid	200~500	1.18~1.20	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalysts & Additives:
   JF-C-001加入量为320g±5g/18kg，硬化剂加入量为200g±10g/18kg，水的加入量为65g±5g/18kg。
   The adding amount of JF-C-001 should be 320g±5g/18kg, the adding amount of hardener should be 200g ±10g/18kg, the adding amount of water should be 65g ±5g/18kg.

5. 成型条件及物性值：Typical processing parameters& Typical Properties:

反应性 Reaction characteristics	技术参数 Technical parameters	项　目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/74~76	成型密度 Molded density（g/cm³）		0.55~0.60
使用温度 Material Temperature（℃）	42~45/38~42	硬度 Hardness（23℃）	A 型Asker A	42~46
			C 型Asker C	65~70
乳白时间 Cream time（s）	4~6	拉伸强度 Tensile strength （MPa）		≥5.0
升起时间 Rise time（s）	30~40	伸长率 Elongation （%）		≥500
自由泡密度 Free rise foam density（g/cm³）	0.27~0.30	撕裂强度 Tear strength （kN/m）		≥25.0
金属模具温度 Mold temperature（℃）	35~55	耐折性（-15℃）Flexing resistance（-15℃） （裂口长度，mm）(Breakage length,mm)		无裂痕 No crack
脱模时间 Demould time（min）	3~4	NBS耐磨（%）NBS abrasion resistance（%） （预除表皮后数据）(The data after remove the cuticle)		≥40

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature&humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
●该物性数据是对6 mm厚的试验片测试获得的数据。
These physical data are acquired by testing a sample of 6mm thick.
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東喜實業 TIRAN INDUSTRIAL

TR-P-9485/ TR-I-9422

1. 特性：低密度、高硬度。
   Characteristics: Low density, high hardness
2. 用途：凉鞋鞋底的生产。
   Applications: For sandals.
3. 原液特性：
   Typical properties of PU resin:

品　名 Name of products	外 观 Appearance (40℃)	粘 度 Viscosity (mPa·s/40℃)	密 度 Density (g/cm³/40℃)	包 装 Package (kg)
JF-P-9485	乳白色液状或蜡状 Milk white liquid or waxy	1200～1800	1.14～1.18	18（Net） 蓝标签 Blue label
JF-I-9422	透明液体，无异物 Transparent and pure liquid	100～300	1.18～1.20	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalysts & Additives:
   JF-C-001的加入量为240g±5g/18kg，水的加入量为85±5g/18kg。
   The adding amount of JF-C-001 should be 240g±5g/18kg, the adding amount of water should be 85g±5g/18kg.

5. 成型条件及物性值：Typical processing parameters&Typical Properties:

反应性 Reaction characteristics	技术参数 Technical parameters	项 目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/90～92	成型密度 Molded density（g/cm³）		0.38～0.42
使用温度 Material Temperature（℃）	40～45/40～45	硬度 Hardness（23℃）	JIS sponge A type	50～56
			JIS sponge C type	65～70
乳白时间 Cream time（s）	6～9	拉伸强度 Tensile strength（MPa）		≥4.5
升起时间 Rise time（s）	30～40	伸长率 Elongation（%）		≥250
自由泡密度 Free rise foam density（g/cm³）	0.18～0.22	撕裂强度 Tear strength（kN/m）		≥18.0
金属模具温度 Mold temperature（℃）	50～55	耐折性（23℃）Flexing resistance（23℃） （裂口长度，mm）(Breakage length,mm)		无裂痕 No crack
脱模时间 Demould time（min）	5～7	NBS耐磨（%）NBS abrasion resistance（%） （预除表皮后数据）(The date after remove the cuicle)		≥10

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature&humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
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東喜實業 TIRAN INDUSTRIAL

TR-P-6881/ TR-I-6820

1. 特性：中、高硬度。
   Characteristics: Medium to high hardness.
2. 用途：男女皮鞋、休闲鞋的生产。
   Applications: For man/woman shoes casual shoes.
3. 原液特性：
   Typical properties of PU resin:

品　名 Name of products	外　观 Appearance (40℃)	粘　度 Viscosity (mPa·s/40℃)	密　度 Density (g/cm³/40℃)	包　装 Package (kg)
JF-P-6881	液状或蜡状 Liquid or waxy	800～1200	1.14～1.18	18（Net） 蓝标签 Blue label
JF-I-6820	透明液体，无异物 Transparent and pure liquid	200～500	1.18～1.20	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalysts & Additives
   JF-C-001的加入量为240g±5g/18kg，水的加入量为20g±5g/18kg。
   The adding amount of JF-C-001 should be 240g±5g/18kg, the adding amount of water should be 20g±5g/18kg.

5. 成型条件及物性值：Typical processing parameters& Typical Properties:

反应性 Reaction characteristics	技术参数 Technical parameters	项　目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/105～110	成型密度 Molded density（g/cm³）		0.55～0.60
使用温度 Material Temperature（℃）	38～42/38～42	硬度 Hardness（23℃）	A 型Asker A	70～75
			C 型Asker C	80～85
乳白时间 Cream time（s）	5～6	拉伸强度 Tensile strength （MPa）		≥6.0
升起时间 Rise time（s）	28～30	伸长率 Elongation （%）		≥300
自由泡密度 Free rise foam density（g/cm³）	0.26～0.28	撕裂强度 Tear strength （kN/m）		≥30.0
金属模具温度 Mold temperature（℃）	35～55	耐折性（-10℃）Flexing resistance（-10℃） （裂口长度，mm）(Breakage length,mm)		无裂痕 No crack
脱模时间 Demould time（min）	4～5	NBS耐磨（%）NBS abrasion resistance（%） （预除表皮后数据）(The data after remove the cuticle)		≥15

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature& humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
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東喜實業 TIRAN INDUSTRIAL

TR-P-5250/ TR-I-5222

1. 特性：中高硬度、低密度。
   Characteristics: Medium to high hardness, low density.
2. 用途：凉鞋鞋底的生产。
   Applications: For sandals.
3. 原液特性：
   Typical properties of PU resin:

品　名 Name of products	外　观 Appearance (40℃)	粘　度 Viscosity (mPa・s/40℃)	密　度 Density (g/cm³/40℃)	包　装 Package (kg)
JF-P-5250	液状或蜡状 Liquid or waxy	800～1200	1.14～1.18	18（Net） 绿标签 Green label
JF-I-5222	透明液体，无异物 Transparent and pure liquid	100～300	1.18～1.20	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalysts & Additives:
   JF-C-001的加入量为200g±5g/18kg，水的加入量为75±5g/18kg。
   The adding amount of JF-C-001 should be 200g±5g/18kg, the adding amount of water should be 75g±5g/18kg.

5. 成型条件及物性值：Typical processing parameters&Typical Properties:

反应性 Reaction characteristics	技术参数 Technical parameters	项　目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/100~102	鞋底成型密度 Molded density（g/cm³）		0.42～0.46
使用温度 Material Temperature（℃）	38~42/38~42	硬度 Hardness（23℃）	A型Asker A	53～58
			C型Asker C	65～70
乳白时间 Cream time（s）	7～10	拉伸强度 Tensile strength （MPa）		≥3.0
升起时间 Rise time（s）	30～40	伸长率 Elongation （%）		≥300
自由泡密度 Free rise foam density（g/cm³）	0.20～0.24	撕裂强度 Tear strength （kN/m）		≥20. 0
金属模具温度 Mold temperature（℃）	50～55	耐折性（0℃）Flexing resistance（0℃） （裂口长度，mm）(Breakage length,mm)		无裂痕 No crack
脱模时间 Demould time（min）	5～7	NBS耐磨（%）NBS abrasion resistance（%）		≥15

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature&humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
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東喜實業
TIRAN INDUSTRIAL

TR-P-5980/ TR-I-6820

1. 特性：中、高硬度。
   Characteristics: Medium to high hardness.
2. 用途：男女皮鞋、凉鞋的生产。
   Applications: For man/woman shoes and casual shoes.
3. 原液特性：
   Typical properties of PU resin:

品　名 Name of products	外　观 Appearance (40℃)	粘　度 Viscosity (mPa·s/40℃)	密　度 Density (g/cm³/40℃)	包　装 Package (kg)
JF-P-5980	液状或蜡状 Liquid or waxy	1000～1600	1.14～1.18	18（Net） 蓝标签 Blue label
JF-I-6820	透明液体，无异物 Transparent and pure liquid	200～500	1.18～1.20	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalysts & Additives:
   JF-C-001的加入量为300g±5g/18kg，水的加入量为10g±5g/18kg。
   The adding amount of JF-C-001 should be 300g±5g/18kg, the adding amount of water should be 10g±5g/18kg.

5. 成型条件及物性值：Typical processing parameters& Typical Properties:

反应性 Reaction characteristics	技术参数 Technical parameters	项　目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/105～110	成型密度 Molded density（g/cm³）		0.45～0.55
使用温度 Material Temperature（℃）	38～42/38～42	硬度 Hardness (JIS sponge C type)（23℃）	A 型Asker A	60～65
			C 型Asker C	75～80
乳白时间 Cream time（s）	7～9	拉伸强度 Tensile strength （Mpa）		≥4.0
升起时间 Rise time（s）	24～27	伸长率 Elongation （%）		≥300
自由泡密度 Free rise foam density（g/cm³）	0.20～0.25	撕裂强度 Tear strength （kN/m）		≥20. 0
金属模具温度 Mold temperature（℃）	45～55	耐折性（-10℃）Flexing resistance（-10℃） （裂口长度，mm）(Breakage length,mm)		无裂痕 No crack
脱模时间 Demould time（min）	4～5	NBS耐磨（%）NBS abrasion resistance （%） （预除表皮后数据）(The data after remove the cuticle)		≥10

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature& humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
●该物性数据是对6 mm厚的试验片测试获得的数据。
These physical data are acquired by testing a sample of 6mm thick.
●以上数据仅作参考，具体数据以实际操作为准。如需其他物性指标，请与我公司联系。
Data listed above are just for reference, The detail data are subject to practice operation. If other request on Physical properties，please contact us.

Shanghai Tiran Industrial Co., Ltd. - Jurong Zhengda Machinery Co., Ltd.
Seat701, Building1, Liando U Valley, NO.69 Yuanfeng Road, Baoshan City industrial Park, Baoshan district, Shanghai, China
Email: sebastian@tiranchina.com / sales@tiranchina.com - TEL: +86 21 6094 1102 FAX:+86 21 6094 3200

東喜實業 TIRAN INDUSTRIAL

TR-P-6765/ TR-I-6722

1. 特性：中低硬度、高流动性。
   Characteristic: Medium to low hardness, high fluidity.
2. 用途：休闲鞋、旅游鞋的生产。
   Application: For casual shoes and sport shoes.
3. 原液特性：
   Typical properties of PU resin:.

品　名 Name of products	外　观 Appearance (40℃)	粘　度 Viscosity (mPa・s/40℃)	密　度 Density (g/cm³/40℃)	包　装 Package (kg)
JF-P-6765	液状或蜡状 Liquid or waxy	800~1200	1.14~1.18	18（Net） 蓝标签 Blue label
JF-I-6722	透明液体，无异物 Transparent and pure liquid	100~300	1.18~1.20	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalysts & Additives
   JF-C-001的加入量为220g±5g/18kg，水的加入量为80g±5g/18kg。
   The adding amount of JF-C-001 should be 220g±5g/18kg, the adding amount of water should be 80g±5g/18kg.

5. 成型条件及物性值：Typical processing parameters& Typical Properties:

反应性 Reaction characteristics	技术参数 Technical parameters	项　目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/78~80	成型密度 Molded density（g/cm³）		0.55~0.60
使用温度 Material Temperature（℃）	38~42/38~42	硬度 Hardness（23℃）	A 型AskerA	40~45
			C 型AskerC	65~70
乳白时间 Cream time（s）	7~10	拉伸强度 Tensile strength（MPa）		≥6.0
升起时间 Rise time（s）	35~45	伸长率 Elongation（%）		≥400
自由泡密度 Free rise foam density（g/cm³）	0.24~0.28	撕裂强度 Tear strength（kN/m）		≥20.0
金属模具温度 Mold temperature（℃）	50~55	耐折性（0℃）Flexing Resistance（0℃） （裂口长度，mm）(Breakage length, mm)		无裂痕 No crack
脱模时间 Demould time（min）	5~7	NBS耐磨（%）NBS abrasion resistance（%） （预除表皮后数据）(The data after remove the cuticle)		≥60

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature&humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
●该物性数据是对6 mm厚的试验片测试获得的数据。
These physical data are acquired by testing a sample of 6mm thick.
●以上数据仅作为参考，具体数据以实际操作为准。如需其他物性指标，请与我公司联系。
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東喜實業 TIRAN INDUSTRIAL

TR-P-9065/ TR-I-9422

1. 特性：低密度、中硬度。
   Characteristics: Low density, medium hardness
2. 用途：休闲鞋、沙滩鞋鞋底的生产。
   Applications: For casual shoes and beach shoes.
3. 原液特性：
   Typical of properties of PU resin:

品　名 Name of products	外　观 Appearance (40℃)	粘　度 Viscosity (mPa·s/40℃)	密　度 Density (g/cm³/40℃)	包　装 Package (kg)
JF-P-9065	微黄、液状或蜡状 Light yellow, liquid or waxy	1700～2200	1.16～1.18	18（Net） 蓝标签 Blue label
JF-I-9422	透明液体，无异物 Transparent and pure liquid	100～300	1.18～1.20	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalysts & Additives
   JF-C-001的加入量为230g±5g/18kg,水的加入量为100g±5g/18kg。
   The adding amount of JF-C-001 should be 230g±5g/18kg, the adding amount of water should be 100g±5g/18kg.

5. 成型条件及物性值：Typical processing parameters& Typical Properties:

反应性 Reaction characteristics	技术参数 Technical parameters	项　目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/78～80	成型密度 Molded density（g/cm³）		0.38～0.42
使用温度 Material Temperature（℃）	38～42/38～42	硬度 Hardness（23℃）	A 型AskerA	40～50
			C 型AskerC	60～70
乳白时间 Cream time（s）	6～8	拉伸强度 Tensile strength （MPa）		≥3.0
升起时间 Rise time（s）	30～40	伸长率 Elongation （%）		≥300
自由泡密度 Free rise foam density（g/cm³）	0.17～0.19	撕裂强度 Tear strength （kN/m）		≥15.0
金属模具温度 Mold temperature（℃）	45～55	耐折性（23℃） Flexing resistance（23℃） （裂口长度，mm） (Breakage length,mm)		无裂痕 No crack
脱模时间 Demould time（min）	5～7	NBS耐磨（%）NBS abrasion resistance（%） （预除表皮后数据）(The data after remove the cuticle)		≥10

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature&humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
●该物性数据是对6 mm厚的试验片测试获得的数据。
These physical data are acquired by testing a sample of 6mm thick.
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東喜實業
TIRAN INDUSTRIAL

TR-P-9980/ TR-I-9422

1. 特性：超低密度、高硬度。
Characteristics: Low density, high hardness,
2. 用途：凉鞋鞋底的生产。
Applications: For sandals.
3. 原液特性：
Typical properties of PU resin:

品　名 Name of products	外　观 Appearance (40℃)	粘　度 Viscosity (mPa·s/40℃)	密　度 Density (g/cm³/40℃)	包　装 Package (kg)
JF-P-9980	乳白色液状或蜡状 Milk white liquid or waxy	2000~3000	1.14～1.18	18（Net） 蓝标签 Blue label
JF-I-9422	透明液体，无异物 Transparent and pure liquid	100~300	1.18～1.20	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalysts &Additives:
JF-C-001的加入量为240g±5g/18kg，水的加入量为100±5g/18kg。
The adding amount of JF-C-001 should be 240g±5g/18kg, the adding amount of water should be 100g±5g/18kg.

5. 成型条件及物性值：Typical processing parameters & Typical Properties:

反应性 Reaction characteristics	技术参数 Technical parameters	项　目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/95~98	成型密度 Molded density（g/cm³）		0.35~0.40
使用温度 Material Temperature（℃）	40~45/40~45	硬度 Hardness（23℃）	JIS sponge A type	60～70
			JIS sponge C type	75~85
乳白时间 Cream time（s）	6~8	拉伸强度 Tensile strength （MPa）		≥4.0
升起时间 Rise time（s）	28~35	伸长率 Elongation （%）		≥200
自由泡密度 Free rise foam density（g/cm³）	0.17~0.20	撕裂强度 Tear strength （kN/m）		≥15.0
金属模具温度 Mold temperature（℃）	50~55	耐折性（23℃）Flexing resistance（23℃） （裂口长度，mm）(Breakage length,mm)		无裂痕 No crack
脱模时间 Demould time（min）	3~5	NBS耐磨（%）NBS abrasion resistance（%） （预除表皮后数据）(The date after remove the cuicle)		≥10

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature & humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
●该物性数据是对6 mm厚的试验片测试获得的数据。
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東喜實業 TIRAN INDUSTRIAL

TR-P-5175/ TR-I-5118

1. 特性：中、低硬度。
   Characteristics: Medium to low hardness.
2. 用途：休闲鞋、凉鞋鞋底的生产。
   Applications: For casual shoes and sandals.
3. 原液特性：
   Typical properties of PU resin:

品　名 Name of products	外　观 Appearance (40℃)	粘　度 Viscosity (mPa·s/40℃)	密　度 Density (g/cm³/40℃)	包　装 Package (kg)
JF-P-5175	液状或蜡状 Liquid or waxy	600～1000	1.16～1.18	18（Net） 蓝标签 Blue label
JF-I-5118	透明液体，无异物 Transparent and pure liquid	200～500	1.18～1.20	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalyst & Adjuvant:
   JF-C-001的加入量为240g±5g/18kg。
   The adding amount of JF-C-001 should be 240g±5g/18kg.

5. 成型条件及物性值（Typical processing parameters& Typical Properties）

反应性 Reaction characteristics	技术参数 Technical parameters	项　目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/98～102	成型密度 Molded density（g/cm³）		0.55～0.60
使用温度 Material Temperature（℃）	38～42/38～42	硬度 Hardness（23℃）	A 型Asker A	57～62
			C 型Asker C	70～75
乳白时间 Cream time（s）	6～9	拉伸强度 Tensile strength（MPa）		≥6.0
升起时间 Rise time（s）	28～35	伸长率 Elongation（%）		≥400
自由泡密度 Free rise foam density（g/cm³）	0.26～0.30	撕裂强度 Tear strength（kN/m）		≥25.0
金属模具温度 Mold temperature（℃）	45～55	耐折性（-10℃）Flexing resistance（-10℃） （裂口长度，mm）(Breakage length,mm)		无裂痕 No crack
脱模时间 Demould time（min）	5～7	NBS耐磨（%）NBS abrasion resistance（%） （预除表皮后数据）(The data after remove the cuticle)		≥25

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature&humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
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東喜實業 TIRAN INDUSTRIAL

TR-P-5475/ TR-I-5421

1. 特性：中高硬度、低密度。
   Characteristics: Medium to high hardness, low density.
2. 用途：凉鞋鞋底的生产。
   Applications: For sandals.
3. 原液特性：
   Typical properties of PU resin:

品　名 Name of products	外　观 Appearance (40℃)	粘　度 Viscosity (mPa·s/40℃)	密　度 Density (g/cm³/40℃)	包　装 Package (kg)
JF-P-5475	液状或蜡状 Liquid or waxy	800~1200	1.14~1.18	18（Net） 蓝标签 Blue label
JF-I-5421	透明液体，无异物 Transparent and pure liquid	100~200	1.18~1.20	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalysts & Additives:
   JF-C-001的加入量为200g±5g/18kg，水的加入量为75±5g/18kg。
   The adding amount of JF-C-001 should be 200g±5g/18kg, the adding amount of water should be 75g±5g/18kg.

5. 成型条件及物性值Typical processing parameters&Typical Properties:

反应性 Reaction characteristics	技术参数 Technical parameters	项　目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/100~102	成型密度 Molded density（g/cm³）		0.42~0.47
使用温度 Material Temperature（℃）	38~42/38~42	硬度 Hardness（23℃）	A 型Asker A	53~58
			C 型Asker C	65~70
乳白时间 Cream time（s）	7~10	拉伸强度 Tensile strength （MPa）		≥4.5
升起时间 Rise time（s）	30~40	伸长率 Elongation （%）		≥300
自由泡密度 Free rise foam density（g/cm³）	0.20~0.24	撕裂强度 Tear strength （kN/m）		≥20.0
金属模具温度 Mold temperature（℃）	50~55	耐折性（0℃）Flexing resistance（0℃） （裂口长度，mm）(Breakage length,mm)		无裂痕 No crack
脱模时间 Demould time（min）	5~7	NBS耐磨（%）NBS abrasion resistance（%） （预除表皮后数据）(The date after remove the cuicle)		≥15

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature&humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
●该物性数据是对6 mm厚的试验片测试获得的数据。
These physical data are acquired by testing a sample of 6mm thick.

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東喜實業 TIRAN INDUSTRIAL

TR-P-6270/ TR-I-4118

1. 特性：中低密度，中低硬度。
   Characteristic： Medium hardness, low density
2. 用途：休闲鞋、连帮鞋的生产。
   Application： For casual shoes and direct injection shoes.
3. 原液特性：
   Typical properties of PU resin:

品　名 Name of products	外　观 Appearance (40℃)	粘　度 Viscosity (mPa·s/40℃)	密　度 Density (g/cm³/40℃)	包　装 Package (kg)
JF-P-6270	液状或蜡状 Liquid or waxy	800～1200	1.14～1.18	18（Net） 蓝标签 Blue label
JF-I-4118	透明液体，无异物 Transparent and pure liquid	200～500	1.18～1.20	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalyst & Additive
   JF-C-001加入量为350g±5g/18kg,水加入量为40g±5g/18kg。
   The adding amount of JF-C-001 should be 350g±5g/18kg,
   the adding amount of water should be 40g±5g/18kg.

5. 成型条件及物性值：Typical processing parameters& Typical Properties:

反应性 Reaction characteristics	技术参数 Technical parameters	项　目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/88~90	成型密度 Molded density（g/cm³）		0.48～0.52
使用温度 Material Temperature（℃）	42～45/38～42	硬度 Hardness（23℃）	A 型Asker A	44～46
			C 型Asker C	64~66
乳白时间 Cream time（s）	4～6	拉伸强度 Tensile strength （MPa）		≥5.0
升起时间 Rise time（s）	30～40	伸长率 Elongation （%）		≥400
自由泡密度 Free rise foam density（g/cm³）	0.25～0.27	撕裂强度 Tear strength （kN/m）		≥25. 0
金属模具温度 Mold temperature（℃）	35～55	耐折性（-10℃）Flexing resistance（-10℃） （裂口长度，mm）(Breakage length,mm)		无裂痕 No crack
脱模时间 Demould time（min）	3～4	/		/

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature & humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
●该物性数据是对6mm厚的试验片测试获得的数据。
These physical data are acquired by testing a sample of 6mm thick.
●该物性数据是对6 mm厚的试验片测试获得的数据。
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Shanghai Tiran Industrial Co., Ltd. - Jurong Zhengda Machinery Co., Ltd.
Seat701, Building1, Liando U Valley, NO.69 Yuanfeng Road, Baoshan City industrial Park, Baoshan district, Shanghai, China
Email: sebastian@tiranchina.com / sales@tiranchina.com - TEL: +86 21 6094 1102 FAX:+86 21 6094 3200

東喜實業 TIRAN INDUSTRIAL

TR-P-6775/ TR-I-6722

1. 特性：中硬度、高流动性。
   Characteristics: Medium to low hardness, high fluidity.
2. 用途：男、女鞋鞋底的生产。
   Applications: For man/woman shoes.
3. 原液特性：
   Typical properties of PU resin:

品　名 Name of products	外　观 Appearance (40℃)	粘　度 Viscosity (mPa·s/40℃)	密　度 Density (g/cm³/40℃)	包　装 Package (kg)
JF-6775	液状或蜡状 Liquid or waxy	800～1200	1.16～1.18	18（Net） 蓝标签 Blue label
JF-I-6722	透明液体，无异物 Transparent and pure liquid	100～300	1.18～1.20	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalysts & Additives:
   JF-C-001的加入量为240g±5g/18kg,水的加入量为90g±5g/18kg。
   The adding amount of JF-C-001 should be 240g±5g/18kg, the adding amount of water should be 90g±5g/18kg.

5. 成型条件及物性值： Typical processing parameters&Typical Properties:

反应性 Reaction characteristics	技术参数 Technical parameters	项　目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/104～106	成型密度 Molded density（g/cm³）		0.50～0.55
使用温度 Material Temperature（℃）	38～42/38～42	硬度 Hardness（23℃）	A 型Asker A	65～75
			C 型Asker C	75～85
乳白时间 Cream time（s）	7～10	拉伸强度 Tensile strength （MPa）		≥6.0
升起时间 Rise time（s）	35～45	伸长率 Elongation （%）		≥300
自由泡密度 Free rise foam density（g/cm³）	0.22～0.26	撕裂强度 Tear strength （kN/m）		≥20.0
金属模具温度 Mold temperature（℃）	45～55	耐折性（23℃）Flexing Resistance（23℃） （裂口长度，mm）(Breakage length, mm)		预割口未见增长 No increase on pre-cutting
脱模时间 Demould time（min）	4～5	NBS耐磨（%）NBS abrasion resistance（%） （预除表皮后数据）(The data after remove the cuticle)		≥20

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature&humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
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These physical data are acquired by testing a sample of 6mm thick.
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東喜實業 TIRAN INDUSTRIAL

TR-P-9186/ TR-I-9422

1. 特性：超低密度、高硬度、流动性好。
   Characteristics: Low density, high hardness, excellent liquidity.
2. 用途：凉鞋鞋底的生产。
   Applications: For sandals.
3. 原液特性：
   Typical properties of PU resin:

品　名 Name of products	外　观 Appearance (40℃)	粘　度 Viscosity (mPa·s/40℃)	包　装 Package (kg)
JF-P-9186	乳白色液状或蜡状 Milk white liquid or waxy	1000～1800	18（Net） 蓝标签 Blue label
JF-I-9422	透明液体，无异物 Transparent and pure liquid	100～300	20（Net） 红标签 Red label

4. 催化剂与辅助剂：Catalysts & Additives:
   JF-C-001的加入量为240g±5g/18kg，水的加入量为70±5g/18kg。
   The adding amount of JF-C-001 should be 240g±5g/18kg, the adding amount of water should be 70g±5g/18kg.

5. 成型条件及物性值：Typical processing parameters&Typical Properties:

反应性 Reaction characteristics	技术参数 Technical parameters	项　目 Items		物性值 Physical properties
参考配比 P+C/I Mix ratio（By Weight）	100/98～102	成型密度 Molded density（g/cm³）		0.35～0.40
使用温度（P/I） Material Temperature（℃）	40～45/40～45	硬度 Hardness（23℃）	A型Asker A	60～70
			C型Asker C	75～85
乳白时间 Cream time（s）	6～8	拉伸强度 Tensile strength（MPa）		≥4.0
升起时间 Rise time（s）	28～35	伸长率 Elongation（%）		≥200
自由泡密度 Free rise foam density（g/cm³）	0. 17～0. 20	撕裂强度 Tear strength（kN/m）		≥15. 0
金属模具温度 Mold temperature（℃）	50～55	耐折性（23℃）Flexing resistance（23℃） （裂口长度，mm）(Breakage length,mm)		无裂痕 No crack
脱模时间 Demould time（min）	3～5	NBS耐磨（%）NBS abrasion resistance（%） （预除表皮后数据）(The date after remove the cuicle)		≥10

●配合比率是以最佳配比值为基础，此配比值会随添加的颜料助剂种类和添加量不同而变化。
The mixing ratio is based on the best proportion, this ratio will be changed with the kind of dye and its adding amount.
●自由泡沫密度会依季节（温度，湿度）的不同而变化。
Free rise density may vary with temperature&humidity.
●脱模时间会随成型品厚度的增加而延长。
Demould time may be prolonged with the increase of sole thickness.
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