

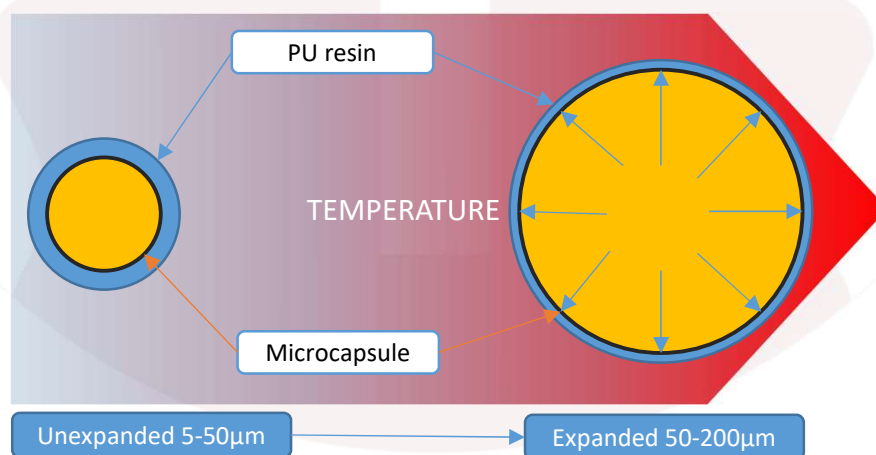
THERMO EXPANDABLE MICROCAPSULE

Product description

The thermo expandable microcapsule is a kind of white or faint yellow thermoplastic microsphere particles which is formed of volatile liquid solvent wrapped up by thermoplastic outer. When the thermo expandable microcapsule is heated, its outer skin will be soft and the inner solvent will expanding which volume is bigger 40-80times than it used to be.

The thermos expandable microcapsule will maintain the hollow expansion condition when it be cooled down. The thermo-expandable microcapsule outer skin is thermoplastic acrylic acid material, so if the microcapsule contact with the organic solvent, the outer skin will be dissolved or soften, which will affect the foaming multiplying power or foaming size

Functioning diagram



FOAMING MICROSPHERE POWDER

Type	Grades	Particle Size (μm)	Heat tolerance	Solvent resistance
Fine	TR-4081 Dry	10-28	Heat tolerance 140°C	Ratio 0,230
Medium	TR-4082 Dry	30-40	Heat tolerance 140°C	Ratio 0,140
Medium	TR-4056 Wet	40-60	Heat tolerance 140°C	Ratio 0,025
Crude	TR-4083 Dry	110-120	Heat tolerance 170°C	Ratio 0,080

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LOW TEMPERATURE FOAMING MICROCAPSULE

Type	Grades	Particle Size (µm)	Starting temperature (°C)	Optimal foaming temperature (°C)	Solvent resistance
Low temp. fine	TR-4016 Wet	10-15	85-95	125-135	4 – Degree
Low temp. fine	TR-0007 Wet	10-16	91-99	138-143	3 – Degree
Low temp. fine	TR-4015 Dry	10-20	85-100	115-130	3 – Degree
Low temp. fine	TR-4048 Dry	10-15	90-100	125-135	3 – Degree
Low temp. Medium Crude	TR-4080 Dry	20-30	85-100	115-130	3 – Degree

HIGH TEMPERATURE FOAMING MICROCAPSULE

Type	Grades	Particle Size (µm)	Starting temperature (°C)	Optimal foaming temperature (°C)	Solvent resistance
Super fine	TR-4000	6-9	123-133	167-177	5 - Degree
Standad fine	TR-4001S	10-16	123-133	167-177	5 – Degree
Medium Crude	TR-4100 wet	20-30	125-135	170-185	3 – Degree
Medium Crude	TR-4003 F	20-30	120-130	175-190	5 – Degree
Crude	TR-4004	35-40	130-140	160-170	4 – Degree
Crude	TR-4005	28-38	130-140	170-180	4 – Degree
Crude	TR-4180	28-38	135-145	175-185	3 – Degree

