

Denka TH-23 Transparent Resin Polymer (MBS resin) Polymethacrylate Butadiene Styrene

Category : Polymer , Thermoplastic , Styrene-Butadiene

Material Notes:

"TX Polymer" (methyl methacrylate styrene), MS resins as an alternative to acrylic resins, with low density, low moisture absorption, and good moldability, "TH Polymer/TP Polymer," MBS resins with a good balance of transparency, strength and fluidity (methyl methacrylate butadiene styrene), "TE Series/CL Series," transparent ABS resins with excellent color attributes and tensile strength are available (among others). Applications TX is used for: flat display substrates, optical components, miscellaneous goods. TP/TH are used for: food package sheeting as well as in manufacturing electronic equipment and components, miscellaneous goods. TE/CL are for: electronic equipment and components, information equipment components, AV equipment, etc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Denka-TH-23-Transparent-Resin-Polymer-MBS-resin-Polymethacrylate-Butadiene-Styrene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Density	1.082 g/cc	0.03909 lb/in ³	ISO 1183
Melt Flow	5.1 g/10 min	5.1 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	59 g/10 min	59 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	29	29	ISO 2039-2
Tensile Strength at Break	34.0 MPa	4930 psi	50mm/min; ISO 527-2
	39.0 MPa	5660 psi	50mm/min; ASTM D638
Elongation at Break	40 %	40 %	50mm/min; ISO 527-2
Tensile Modulus	4.40 GPa	638 ksi	50mm/min; ISO 527-1
Flexural Strength	65.0 MPa	9430 psi	2mm/min; ASTM D790
	65.0 MPa	9430 psi	ISO 178
Flexural Modulus	2.05 GPa	297 ksi	2mm/min; ASTM D790
	2.10 GPa	305 ksi	2mm/min; ISO 178
Izod Impact Resistance	12.6 J/cm ²	60.0 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	1.20 J/cm²	5.71 ft-lb/in²	ISO 179-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	63.0 °C	145 °F	ISO 75-2
	71.0 °C	160 °F	ASTM D648
Vicat Softening Point	84.0 °C	183 °F	50N; ISO 306
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Haze	2.7 %	2.7 %	ISO 14782
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Transmission, Visible	91 %	91 %	ISO 13468-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	

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