

Denka TH-21 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-21-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	1.085 g/cc	0.03920 lb/in ³	ISO 1183
Melt Flow	3.9 g/10 min	3.9 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	47 g/10 min	47 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	39	39	ISO 2039-2
Tensile Strength at Break	36.0 MPa	5220 psi	50mm/min; ISO 527-2
	45.0 MPa	6530 psi	50mm/min; ASTM D638
Elongation at Break	30 %	30 %	50mm/min; ISO 527-2
Flexural Strength	72.0 MPa	10400 psi	ISO 178
	73.0 MPa	10600 psi	2mm/min; ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	2mm/min; ISO 178
	2.42 GPa	351 ksi	2mm/min; ASTM D790
Izod Impact Resistance	8.50 J/cm ²	40.5 ft-lb/in ²	
Charpy Impact, Notched	1.10 J/cm ²	5.24 ft-lb/in ²	ISO 179-2

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ISO 75-2
	73.0 °C	163 °F	ASTM D648
Vicat Softening Point	86.0 °C	187 °F	50N; ISO 306
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Haze	2.4 % @Thickness 2.00 mm	2.4 % @Thickness 0.0787 in	ISO 14782
Transmission, Visible	91 % @Thickness 2.00 mm	91 % @Thickness 0.0787 in	ISO 13468-1

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