

## Denka TX-100S Transparent Resin Polymer (MS resin) Methyl Methacrylate Styrene

Category : Polymer , Thermoplastic

### 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-TX-100S-Transparent-Resin-Polymer-MS-resin-Methyl-Methacrylate-Styrene.php](http://www.lookpolymers.com/polymer_Denka-TX-100S-Transparent-Resin-Polymer-MS-resin-Methyl-Methacrylate-Styrene.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Density	1.127 g/cc	0.04072 lb/in <sup>3</sup>	ISO 1183
Melt Flow	1.9 g/10 min	1.9 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	26 g/10 min	26 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	86	86	ISO 2039-2
Tensile Strength at Break	70.0 MPa	10200 psi	5mm/min; ASTM D638
	73.0 MPa	10600 psi	5mm/min; ISO 527-2
Elongation at Break	6.0 %	6.0 %	5mm/min; ISO 527-2
Flexural Strength	107 MPa	15500 psi	2mm/min; ASTM D790
	111 MPa	16100 psi	ISO 178
Flexural Modulus	3.32 GPa	482 ksi	2mm/min; ISO 178
	3.35 GPa	486 ksi	2mm/min; ASTM D790
Izod Impact Resistance	1.80 J/cm <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	
Charpy Impact, Notched	0.200 J/cm <sup>2</sup>	0.952 ft-lb/in <sup>2</sup>	ISO 179-2

Mechanical Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	ISO 75-2
	87.0 °C	189 °F	ASTM D648
Vicat Softening Point	100 °C	212 °F	50N; ISO 306
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Haze	0.20 % @Thickness 2.00 mm	0.20 % @Thickness 0.0787 in	ISO 14782
Transmission, Visible	92 % @Thickness 2.00 mm	92 % @Thickness 0.0787 in	ISO 13468-1

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