

## Denka TP-802 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-TP-802-Transparent-Resin-Polymer-MBS-resin-Polymethacrylate-Butadiene-Styrene.php](http://www.lookpolymers.com/polymer_Denka-TP-802-Transparent-Resin-Polymer-MBS-resin-Polymethacrylate-Butadiene-Styrene.php)

Physical Properties	Metric	English	Comments
Density	1.085 g/cc	0.03920 lb/in <sup>3</sup>	ISO 1183
Melt Flow	3.0 g/10 min	3.0 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	48 g/10 min	48 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 Modulus	5.00 GPa	725 ksi	50mm/min; ISO 527-1
Flexural Strength	73.0 MPa	10600 psi	ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2mm/min; ISO 178
Charpy Impact, Notched	0.800 J/cm <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	ISO 179-2

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

Optical Properties	Metric	English	Comments
Haze	2.2 %	2.2 %	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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