

## Denka TE-10 Transparent Resin Polymer (MABS resin) ABS

Category : Polymer , Thermoplastic , ABS Polymer

### 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-TE-10-Transparent-Resin-Polymer-MABS-resin-ABS.php](http://www.lookpolymers.com/polymer_Denka-TE-10-Transparent-Resin-Polymer-MABS-resin-ABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Density	1.092 g/cc	0.03945 lb/in <sup>3</sup>	ISO 1183
Melt Flow	2.5 g/10 min	2.5 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	29 g/10 min	29 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	49	49	ISO 2039-2
Tensile Strength at Break	31.0 MPa	4500 psi	50mm/min; ISO 527-2
	37.0 MPa	5370 psi	
Elongation at Break	50 %	50 %	50mm/min; ISO 527-2
Tensile Modulus	4.30 GPa	624 ksi	50mm/min; ISO 527-1
Flexural Strength	64.0 MPa	9280 psi	ISO 178
Flexural Modulus	2.00 GPa	290 ksi	2mm/min; ISO 178
Charpy Impact, Notched	1.60 J/cm <sup>2</sup>	7.61 ft-lb/in <sup>2</sup>	ISO 179-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	71.0 °C	160 °F	ISO 75-2

Thermal Properties	Metric	English	Comments
Vicat Softening Point	89.0 °C	192 °F	50N; ISO 306
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Haze	2.3 % @Thickness 2.00 mm	2.3 % @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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