

Samsung Cheil Industries TRANEXA® TX-0520T Transparent Grade ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Transparent, Molded

Material Notes:

Information provided by Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samsung-Cheil-Industries-TRANEX-TX-0520T-Transparent-Grade-ABS.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	16 g/10 min	16 g/10 min	
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength	43.12 MPa	6254 psi	
	@Thickness 3.17 mm	@Thickness 0.125 in	
Elongation at Break	14 %	14 %	ASTM D638
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Strength	58.80 MPa	8528 psi	ASTM D790
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Modulus	1.93 GPa	280 ksi	ASTM D790
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched	1.47 J/cm	2.75 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Optical Properties	Metric	English	Comments
Haze	2.7 %	2.7 %	ASTM D1003
Transmission, Visible	89 %	89 %	ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 230 Â°C	374 - 446 Â°F	Injection Temp
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	
Drying Temperature	75.0 - 80.0 Â°C	167 - 176 Â°F	
Dry Time	2 - 4 hour	2 - 4 hour	
Injection Pressure	68.5 - 107.7 MPa	9940 - 15620 psi	
Back Pressure	0.979 - 1.96 MPa	142 - 284 psi	
Screw Speed	60 - 90 rpm	60 - 90 rpm	

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