

LG Chemical TR552 MABS, Transparency, High Impact, Chemical Resistance

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

Material Notes:

Feature: Injection Molding, Transparency, High Impact, Chemical Resistance
 Application: Electric/Electronic Applications, Copier, Printer etc
 CAS No. 9011-14-7 and 9003-56-9
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-TR552-MABS-Transparency-High-Impact-Chemical-Resistance.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Melt Flow	12 g/10 min @Load 10.0 kg, Temperature 220 °C	12 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	39.2 MPa @Thickness 3.20 mm	5690 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	35 % @Thickness 3.20 mm	35 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	60.8 MPa @Thickness 6.40 mm	8820 psi @Thickness 0.252 in	15 mm/min; ASTM D790
Flexural Modulus	1.83 GPa @Thickness 6.40 mm	266 ksi @Thickness 0.252 in	15 mm/min; ASTM D790
Izod Impact, Notched	2.26 J/cm @Thickness 6.40 mm, Temperature 23.0 °C	4.22 ft-lb/in @Thickness 0.252 in, Temperature 73.4 °F	ASTM D256
	2.26 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	4.22 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C @Thickness 6.40 mm	180 °F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties <small>UL RTI, Electrical</small>	Metric <small>60.0 Â°C</small>	English <small>140 Â°F</small>	Comments
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 Â°C	140 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	60.0 Â°C	140 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 Â°C	140 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	60.0 Â°C	140 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	60.0 Â°C	140 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	HB	HB	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	HB	HB	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	

Optical Properties	Metric	English	Comments
Haze	2.2 %	2.2 %	ASTM D1003
Transmission, Visible	90 %	90 %	ASTM D1003

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