

LG Chemical TR557 MABS, High Transparency, High Impact

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

Material Notes:

Feature: Injection Molding, High Transparency, High Impact 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-TR557-MABS-High-Transparency-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Melt Flow	23 g/10 min @Load 10.0 kg, Temperature 220 Å°C	23 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	ASTM D785
Tensile Strength, Yield	45.1 MPa @Thickness 3.20 mm	6540 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	30 % @Thickness 3.20 mm	30 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	72.6 MPa @Thickness 6.40 mm	10500 psi @Thickness 0.252 in	15 mm/min; ASTM D790
Flexural Modulus	2.22 GPa @Thickness 6.40 mm	321 ksi @Thickness 0.252 in	15 mm/min; ASTM D790
Izod Impact, Notched	1.57 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	2.94 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256
	1.67 J/cm @Thickness 6.40 mm, Temperature 23.0 Å°C	3.12 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	81.0 Å°C @Thickness 6.40 mm	178 Å°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties <small>UL RTI, Electrical</small>	Metric <small>50.0 Â°C</small>	English <small>122 Â°F</small>	Comments
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	50.0 Â°C	122 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	50.0 Â°C	122 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	50.0 Â°C	122 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	50.0 Â°C	122 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	50.0 Â°C	122 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	2.0 %	2.0 %	ASTM D1003
Transmission, Visible	90 %	90 %	ASTM D1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	
Dielectric Strength	7.00 kV/mm	178 kV/in	
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	7.0 - 15 sec	7.0 - 15 sec	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	

Electrical Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
	>= 120 arcs	>= 120 arcs	
	@Thickness 3.00 mm	@Thickness 0.118 in	

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