

LG Chemical TR551 MABS, High Transparency, High Rigidity, High Hardness

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

Material Notes:

Feature: Injection Molding, High Transparency, High Rigidity, High Hardness
 Application: Electric/Electronic Parts Copier, Compact Cases 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-TR551-MABS-High-Transparency-High-Rigidity-High-Hardness.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Melt Flow	8.0 g/10 min @Load 10.0 kg, Temperature 220 °C	8.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ASTM D785
Tensile Strength, Yield	55.9 MPa @Thickness 3.20 mm	8110 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	28 % @Thickness 3.20 mm	28 % @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Yield	>= 6.0 % @Thickness 3.20 mm	>= 6.0 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	92.2 MPa @Thickness 6.40 mm	13400 psi @Thickness 0.252 in	15 mm/min; ASTM D790
Flexural Modulus	2.65 GPa @Thickness 6.40 mm	384 ksi @Thickness 0.252 in	15 mm/min; ASTM D790
Izod Impact, Notched	1.08 J/cm @Thickness 6.40 mm, Temperature 23.0 °C	2.02 ft-lb/in @Thickness 0.252 in, Temperature 73.4 °F	ASTM D256
	1.08 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	2.02 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa	86.0 °C	187 °F	

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	50.0 Å°C	122 Å°F	Unannealed; ASTM D648
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	50.0 Å°C	122 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	50.0 Å°C	122 Å°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	50.0 Å°C	122 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	50.0 Å°C	122 Å°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	50.0 Å°C	122 Å°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	1.7 %	1.7 %	ASTM D1003
Transmission, Visible	90 %	90 %	ASTM D1003

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