

LG Chemical XG569C MABS, Anti-Scratch, High Gloss

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

Material Notes:

Feature: Injection Molding, Anti-Scratch, High Gloss
Application: LCD TV Front Cabinet, Bezel, Audio/Video Housing
CSA 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-XG569C-MABS-Anti-Scratch-High-Gloss.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Water Absorption	0.30 % @Temperature 23.0 Â°C, Time 86400 sec	0.30 % @Temperature 73.4 Â°F, Time 24.0 hour	ASTM D570
Maximum Moisture Content	0.010	0.010	Injection Molding
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	11.5 g/10 min @Load 10.0 kg, Temperature 220 Â°C	11.5 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ASTM D785
Tensile Strength, Yield	54.9 MPa @Thickness 3.20 mm	7970 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	20 % @Thickness 3.20 mm	20 % @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	90.2 MPa @Thickness 3.20 mm	13100 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	2.79 GPa @Thickness 3.20 mm	405 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
	0.981 J/cm	1.84 ft-lb/in	

Izod Impact, Notched Mechanical Properties	Metric @Thickness 6.40 mm, Temperature 23.0 Â°C	English @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256 Comments
	0.981 J/cm	1.84 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 Â°C	@Thickness 0.126 in, Temperature 73.4 Â°F	
Izod Impact, Unnotched	0.490 J/cm	0.918 ft-lb/in	ASTM D256
	@Thickness 6.40 mm, Temperature -20.0 Â°C	@Thickness 0.252 in, Temperature -4.00 Â°F	
	0.490 J/cm	0.918 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -20.0 Â°C	@Thickness 0.126 in, Temperature -4.00 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	86.0 Â°C	187 Â°F	ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	88.0 Â°C	190 Â°F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	82.0 Â°C	180 Â°F	ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	83.0 Â°C	181 Â°F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Flammability, UL94	HB	HB	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	HB	HB	
	@Thickness >=3.20 mm	@Thickness >=0.126 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	180 - 200 Â°C	356 - 392 Â°F	Injection Molding
Middle Barrel Temperature	190 - 210 Â°C	374 - 410 Â°F	Injection Molding
Front Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
Nozzle Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
Melt Temperature	200 - 230 Â°C	392 - 446 Â°F	Injection Molding
Mold Temperature	40.0 - 60.0 Â°C	104 - 140 Â°F	Injection Molding

Processing Properties	Metric	English	Comments
Drying Temperature	80.0 - 90.0 Å°C	176 - 194 Å°F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
Back Pressure	29.4 - 58.8 MPa	4260 - 8530 psi	Injection Molding
Screw Speed	30 - 60 rpm	30 - 60 rpm	Injection Molding

Descriptive Properties	Value	Comments
Ozone Resistance	No Crack	5 sec, JIS K6301

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