

LG Chemical XG570 MABS, Anti-Scratch, High Impact, High Flow

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

Material Notes:

Feature: Injection Molding, Anti-Scratch, High Impact, High Flow Application: LCD TV Stand Base, Audio/Video Housing CAS No. 9010-94-0
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-XG570-MABS-Anti-Scratch-High-Impact-High-Flow.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Water Absorption	0.30 % @Temperature 23.0 °C, Time 86400 sec	0.30 % @Temperature 73.4 °F, Time 24.0 hour	ASTM D570
Maximum Moisture Content	0.010	0.010	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	22 g/10 min @Load 10.0 kg, Temperature 220 °C	22 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	49.0 MPa @Thickness 3.20 mm	7110 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
Elongation at Yield	>= 6.0 % @Thickness 3.20 mm	>= 6.0 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	82.4 MPa @Thickness 3.20 mm	11900 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	2.89 GPa @Thickness 3.20 mm	420 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	1.77 J/cm	3.31 ft-lb/in	ASTM D256

Mechanical Properties	Metric @Thickness 6.40 mm, Temperature 23.0 °C	English @Thickness 0.252 in, Temperature 73.4 °F	Comments
	1.77 J/cm	3.31 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 °C	@Thickness 0.126 in, Temperature 73.4 °F	
Izod Impact, Unnotched	0.981 J/cm	1.84 ft-lb/in	ASTM D256
	@Thickness 6.40 mm, Temperature -20.0 °C	@Thickness 0.252 in, Temperature -4.00 °F	
	0.981 J/cm	1.84 ft-lb/in	ASTM D256
	@Thickness 3.20 mm, Temperature -20.0 °C	@Thickness 0.126 in, Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	87.0 °C	189 °F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
	87.0 °C	189 °F	Unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	91.0 °C	196 °F	ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
	91.0 °C	196 °F	ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 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	170 - 190 °C	338 - 374 °F	Injection Molding
Middle Barrel Temperature	180 - 200 °C	356 - 392 °F	Injection Molding
Front Barrel Temperature	190 - 210 °C	374 - 410 °F	Injection Molding
Nozzle Temperature	200 - 220 °C	392 - 428 °F	Injection Molding
Melt Temperature	200 - 230 °C	392 - 446 °F	Injection Molding
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	Injection Molding

Drying Temperature Processing Properties	80.0 - 90.0 °C Metric	176 - 194 °F English	Injection Molding Comments
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

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