

LG Chemical HI110 ABS, High Impact, Chemical Resistance

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

Material Notes:

Feature: Injection Molding, High Impact, Chemical Resistance
 Application: Edge of Furniture Applications
 CAS No. 9003-56-9
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-HI110-ABS-High-Impact-Chemical-Resistance.php

Physical Properties	Metric	English	Comments
Maximum Moisture Content	0.010	0.010	Injection Molding
Melt Flow	11 g/10 min @Load 10.0 kg, Temperature 220 Â°C	11 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	87	87	ASTM D785
Tensile Strength, Yield	37.3 MPa @Thickness 3.20 mm	5400 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	>= 10 % @Thickness 3.20 mm	>= 10 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	53.9 MPa @Thickness 3.20 mm	7820 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	1.86 GPa @Thickness 3.20 mm	270 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	4.02 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	7.53 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	84.0 Â°C @Thickness 6.40 mm	183 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	180 - 200 Â°C	356 - 392 Â°F	Injection Molding

Middle Barrel Temperature Processing Properties	190 - 210 Â°C Metric	374 - 410 Â°F English	Injection Molding Comments
Front Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
Nozzle Temperature	200 - 230 Â°C	392 - 446 Â°F	Injection Molding
Melt Temperature	210 - 240 Â°C	410 - 464 Â°F	Injection Molding
Mold Temperature	40.0 - 70.0 Â°C	104 - 158 Â°F	Injection Molding
Drying Temperature	80.0 Â°C	176 Â°F	Injection Molding
Dry Time	2.00 - 4.00 hour	2.00 - 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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