

LG Chemical XR440 ABS, Low Emission High Heat ABS

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

Material Notes:

Feature: Injection Molding Grade, Low Emission High Heat ABS
Application: Automotives Interior housing
CAS No. 25120-20-1, 9003-56-9, 25747-74-7, and 31621-07-5
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-XR440-ABS-Low-Emission-High-Heat-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	6.0 g/10 min @Load 10.0 kg, Temperature 220 Â°C	6.0 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM D785
Tensile Strength, Yield	51.0 MPa @Thickness 3.20 mm	7400 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	25 % @Thickness 3.20 mm	25 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	80.4 MPa @Thickness 3.20 mm	11700 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	2.65 GPa @Thickness 3.20 mm	384 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	0.981 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	1.84 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256
	0.981 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.84 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256
	0.490 J/cm	0.918 ft-lb/in	

Impact Properties	Metric	English	Comments
Charpy Impact, Unnotched	@ Thickness 6.40 mm, Temperature -30.0 Â°C	@ Thickness 0.252 in, Temperature -22.0 Â°F	
	0.588 J/cm	1.10 ft-lb/in	
	@Thickness 3.20 mm, Temperature -30.0 Â°C	@Thickness 0.126 in, Temperature -22.0 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 Â°C @Thickness 6.40 mm	230 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	101 Â°C @Thickness 6.40 mm	214 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	110 Â°C @Load 5.00 kg	230 Â°F @Load 11.0 lb	50Â°C/h; ASTM D1525

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	180 - 220 Â°C	356 - 428 Â°F	Injection Molding
Middle Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	Injection Molding
Front Barrel Temperature	230 - 250 Â°C	446 - 482 Â°F	Injection Molding
Nozzle Temperature	240 - 250 Â°C	464 - 482 Â°F	Injection Molding
Melt Temperature	230 - 250 Â°C	446 - 482 Â°F	Injection Molding
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	Injection Molding
Drying Temperature	80.0 - 90.0 Â°C	176 - 194 Â°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	50 - 100 rpm	50 - 100 rpm	Injection Molding

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