

LG Chemical LI951 Heat Resistant ASA

Category : Polymer , Thermoplastic , ASA Polymer , Acrylonitrile/Styrene/Acrylate (ASA), Unreinforced, Molded

Material Notes:

Description: High Heat ASA Application: Automotive Part (Radiator Grill, Side Mirror) CAS: 26299-47-8 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LI951-Heat-Resistant-ASA.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 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 Å°C	6.0 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	ASTM D785
Tensile Strength, Yield	50.0 MPa @Thickness 3.20 mm	7250 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	25 % @Thickness 3.20 mm	25 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	77.5 MPa @Thickness 6.40 mm	11200 psi @Thickness 0.252 in	15mm/min; ASTM D790
Flexural Modulus	2.16 GPa @Thickness 6.40 mm	313 ksi @Thickness 0.252 in	15mm/min; ASTM D790
Izod Impact, Notched	1.08 J/cm @Thickness 6.50 mm, Temperature 23.0 Å°C	2.02 ft-lb/in @Thickness 0.256 in, Temperature 73.4 Å°F	ASTM D256
	1.18 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	2.20 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	104 Â°C @Thickness 6.40 mm	219 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Â°C @Thickness 6.40 mm	203 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	104 Â°C @Load 5.00 kg	219 Â°F @Load 11.0 lb	50Â°C/h; ASTM D1525
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	Injection Molding
Middle Barrel Temperature	210 - 230 Â°C	410 - 446 Â°F	Injection Molding
Front Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	Injection Molding
Nozzle Temperature	220 - 240 Â°C	428 - 464 Â°F	Injection Molding
Melt Temperature	210 - 240 Â°C	410 - 464 Â°F	Injection Molding
Mold Temperature	40.0 - 60.0 Â°C	104 - 140 Â°F	Injection Molding
Drying Temperature	70.0 - 80.0 Â°C	158 - 176 Â°F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
Back Pressure	68.6 - 88.3 MPa	9950 - 12800 psi	Injection Molding
Screw Speed	<= 80 rpm	<= 80 rpm	Injection Molding

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