

LG Chemical PI642G ABS, General Purpose, High Modulus

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

Material Notes:
Feature: Extrusion Molding, General Purpose, High ModulusApplication: Pipe fittingCAS No. 9003-56-9Information provided by LG Chemical

Order this product through the following link:
http://www.lookpolymers.com/polymer_LG-Chemical-PI642G-ABS-General-Purpose-High-Modulus.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Extrusion 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	8.0 g/10 min @Load 10.0 kg, Temperature 220 Â°C	8.0 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D785
Tensile Strength, Yield	55.9 MPa @Thickness 3.20 mm	8110 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	>= 5.0 % @Thickness 3.20 mm	>= 5.0 % @Thickness 0.126 in	50 mm/min; ASTM D638
Flexural Yield Strength	88.3 MPa @Thickness 3.20 mm	12800 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	2.75 GPa @Thickness 3.20 mm	398 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	2.35 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	4.41 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256
	2.65 J/cm	4.96 ft-lb/in	ASTM D256

Mechanical Properties	Metric @Thickness 3.20 mm, Temperature 23.0 Â°C	English @Thickness 0.126 in, Temperature 73.4 Â°F	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	92.0 Â°C @Thickness 6.40 mm	198 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	86.0 Â°C @Thickness 6.40 mm	187 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	94.0 Â°C @Load 5.00 kg	201 Â°F @Load 11.0 lb	50Â°C/h; ASTM D1525

Processing Properties	Metric	English	Comments
Zone 1	180 - 210 Â°C	356 - 410 Â°F	Extrusion Molding
Zone 2	190 - 230 Â°C	374 - 446 Â°F	Extrusion Molding
Zone 3	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Zone 4	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Adapter Temperature	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Die Temperature	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Melt Temperature	200 - 250 Â°C	392 - 482 Â°F	Extrusion Molding
Roll Temperature	60.0 - 90.0 Â°C	140 - 194 Â°F	Bottom, Extrusion
	70.0 - 90.0 Â°C	158 - 194 Â°F	Middle, Extrusion
	70.0 - 100 Â°C	158 - 212 Â°F	Top, Extrusion
Drying Temperature	70.0 - 80.0 Â°C	158 - 176 Â°F	Extrusion Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Extrusion Molding

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