

LG Chemical PI641 ABS, High Impact

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

Material Notes:

Feature: Extrusion Molding, General Purpose, High Impact Application: Pipe Fitting CAS No. 9003-56-9 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-PI641-ABS-High-Impact.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 Å°C	8.0 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	45.1 MPa @Thickness 3.20 mm	6540 psi @Thickness 0.126 in	50 mm/min; ASTM D638
Elongation at Break	20 % @Thickness 3.20 mm	20 % @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	68.6 MPa @Thickness 3.20 mm	9960 psi @Thickness 0.126 in	15 mm/min; ASTM D790
Flexural Modulus	2.30 GPa @Thickness 3.20 mm	334 ksi @Thickness 0.126 in	15 mm/min; ASTM D790
Izod Impact, Notched	4.12 J/cm @Thickness 6.40 mm, Temperature 23.0 Å°C	7.71 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Å°F	ASTM D256
	4.41 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	8.27 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	91.0 Å°C @Thickness 6.40 mm	196 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	86.0 Å°C @Thickness 6.40 mm	187 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
Vicat Softening Point	94.0 Å°C @Load 5.00 kg	201 Å°F @Load 11.0 lb	50Å°C/h; ASTM D1525

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

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