

LG Chemical PI-642 ABS, Fitting, High Strength

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Information Provided by LG Chem

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-PI-642-ABS-Fitting-High-Strength.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ISO 2577
Melt Index of Compound	7.35 g/10 min @Load 10.0 kg, Temperature 220 °C	7.35 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	50.0 MPa	7250 psi	50 mm/min; ISO 527
Elongation at Break	18 %	18 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	2.20 GPa	319 ksi	1 mm/min; ISO 527
Flexural Yield Strength	75.0 MPa	10900 psi	2 mm/min; ISO 178
Flexural Modulus	2.30 GPa	334 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	15.0 kJ/m ² @Temperature -30.0 °C	7.14 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	30.0 kJ/m ² @Temperature 23.0 °C	14.3 ft-lb/in ² @Temperature 73.4 °F	ISO 80
Charpy Impact Unnotched	NB @Temperature -30.0 °C	NB @Temperature -22.0 °F	ISO 179
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179

Mechanical Properties <i>Charpy Impact, Notched</i>	Metric	English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ISO 179
	4.00 J/cmÂ²	19.0 ft-lb/inÂ²	ISO 179
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	84.0 Âµm/m-Â°C	46.7 Âµin/in-Â°F	ISO 11359
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
CTE, linear, Transverse to Flow	85.0 Âµm/m-Â°C	47.2 Âµin/in-Â°F	ISO 11359
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	96.0 Â°C	205 Â°F	Annealed, 80Â°C, 4 hours; ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	96.0 Â°C	205 Â°F	Annealed, 80Â°C, 4 hours; ISO 175
Vicat Softening Point	98.0 Â°C	208 Â°F	50 N, 50Â°C/h; ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 93
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 93
Dielectric Constant	2.9	2.9	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.0	3.0	IEC 250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.012	0.012	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 250 Â°C	428 - 482 Â°F	
Mold Temperature	40.0 - 80.0 Â°C	104 - 176 Â°F	
Drying Temperature	75.0 - 85.0 Â°C	167 - 185 Â°F	
Dry Time	2 - 4 hour	2 - 4 hour	Predrying

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