

LG Chemical HI-151 ABS, Middle Impact

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

Material Notes:

Information Provided by LG Chem

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-HI-151-ABS-Middle-Impact.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	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ISO 2577
Melt Index of Compound	24.15 g/10 min @Load 10.0 kg, Temperature 220 Â°C	24.15 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.0 MPa	7400 psi	50 mm/min; ISO 527
Elongation at Break	15 %	15 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	2.40 GPa	348 ksi	1 mm/min; ISO 527
Flexural Yield Strength	77.0 MPa	11200 psi	2 mm/min; ISO 178
Flexural Modulus	2.30 GPa	334 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	11.0 kJ/m ² @Temperature -30.0 Â°C	5.23 ft-lb/in ² @Temperature -22.0 Â°F	ISO 180
	22.0 kJ/m ² @Temperature 23.0 Â°C	10.5 ft-lb/in ² @Temperature 73.4 Â°F	ISO 80
Charpy Impact Unnotched	7.00 J/cm ² @Temperature -30.0 Â°C	33.3 ft-lb/in ² @Temperature -22.0 Â°F	ISO 179
	8.00 J/cm ² @Temperature 23.0 Â°C	38.1 ft-lb/in ² @Temperature 73.4 Â°F	ISO 179

Mechanical Properties Charpy Impact, Notched	1.20 J/cm ² Metric	5.71 ft-lb/in ² English	Comments ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	2.30 J/cm ² @Temperature 23.0 Â°C	10.9 ft-lb/in ² @Temperature 73.4 Â°F	ISO 179

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	97.0 Â°C	207 Â°F	Annealed, 80Â°C, 4 hours; ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	94.0 Â°C	201 Â°F	Annealed, 80Â°C, 4 hours; ISO 175
Vicat Softening Point	96.0 Â°C	205 Â°F	50 N, 50Â°C/h; ISO 306
Flammability, UL94	HB @Thickness 3.00 mm	HB @Thickness 0.118 in	
	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

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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