

LG Chemical HF-380 ABS, High Flow, High Impact

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

Material Notes:

Feature: Injection Molding, High Flow Application: Electric & Electronic Products, Toys, Miscellaneous Goods) CAS No. 9003-56-9
Information Provided by LG Chem

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-HF-380-ABS-High-Flow-High-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	42 g/10 min @Load 10.0 kg, Temperature 220 °C	42 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	50 mm/min; ISO 527
Elongation at Break	16 %	16 %	50 mm/min; ISO 527
Elongation at Yield	5.0 %	5.0 %	50 mm/min; ISO 527
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min; ISO 527
Flexural Yield Strength	67.0 MPa	9720 psi	2 mm/min; ISO 178
Flexural Modulus	2.20 GPa	319 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	14.0 kJ/m ² @Temperature -30.0 °C	6.66 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	25.0 kJ/m ² @Temperature 23.0 °C	11.9 ft-lb/in ² @Temperature 73.4 °F	ISO 80
Charpy Impact Unnotched	8.50 J/cm ² @Temperature -30.0 °C	40.5 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	ISO 179

Mechanical Properties	@Temperature -30.0 °C Metric	@Temperature -22.0 °F English	Comments
	2.70 J/cm ²	12.8 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	106 µm/m-°C	58.9 µin/in-°F	ISO 11359
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	96.0 µm/m-°C	53.3 µin/in-°F	ISO 11359
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	97.0 °C	207 °F	Annealed, 80°C, 4 hours; ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	94.0 °C	201 °F	Annealed, 80°C, 4 hours; ISO 175
Vicat Softening Point	96.0 °C	205 °F	50 N, 50°C/h; ISO 306
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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	2.8	2.8	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	2.9	2.9	IEC 250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	46.0 kV/mm	1170 kV/in	IEC 243
Dissipation Factor	0.0090	0.0090	IEC 250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	575 V	575 V	IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 250 °C	428 - 482 °F	

Processing Properties	Metric	English	Comments
Drying Temperature	75.0 - 85.0 °C	167 - 185 °F	
Dry Time	2 - 4 hour	2 - 4 hour	Predrying

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