

LG Chemical HG-174 ABS, High Gloss, Super High Flow

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

Material Notes:

Information Provided by LG Chem

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-HG-174-ABS-High-Gloss-Super-High-Flow.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	56.7 g/10 min @Load 10.0 kg, Temperature 220 °C	56.7 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	2.40 GPa	348 ksi	1 mm/min; ISO 527
Flexural Yield Strength	76.0 MPa	11000 psi	2 mm/min; ISO 178
Flexural Modulus	2.70 GPa	392 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	ISO 180
	13.0 kJ/m ² @Temperature 23.0 °C	6.19 ft-lb/in ² @Temperature 73.4 °F	ISO 80
Charpy Impact Unnotched	5.00 J/cm ² @Temperature -30.0 °C	23.8 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	5.50 J/cm ² @Temperature 23.0 °C	26.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179
Charpy Impact, Notched	0.900 J/cm ² @Temperature -30.0 °C	4.28 ft-lb/in ² @Temperature -22.0 °F	ISO 179

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	97.0 µm/m-°C	53.9 µin/in-°F	ISO 11359
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	94.0 µm/m-°C	52.2 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)	93.0 °C	199 °F	Annealed, 80°C, 4 hours; ISO 175
Vicat Softening Point	95.0 °C	203 °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+14 ohm	>= 1.00e+14 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	40.0 kV/mm	1020 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	
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	

Processing Properties	Metric35.0 °C	English35 °F	Comments
Dry Time	2 - 4 hour	2 - 4 hour	Predrying

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