

LG Chemical SH-610 ABS, Extrusion, High Impact

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

Material Notes:

Information Provided by LG Chem

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-SH-610-ABS-Extrusion-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	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ISO 2577
Melt Index of Compound	16.8 g/10 min @Load 10.0 kg, Temperature 220 °C	16.8 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.0 MPa	6960 psi	50 mm/min; ISO 527
Elongation at Break	20 %	20 %	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	75.0 MPa	10900 psi	2 mm/min; ISO 178
Flexural Modulus	2.50 GPa	363 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	13.0 kJ/m ² @Temperature -30.0 °C	6.19 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	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	Metric	English	Comments
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	ISO 179
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	
	3.50 J/cm ²	16.7 ft-lb/in ²	ISO 179
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear	68.0 Åµm/m-Å°C	37.8 Åµin/in-Å°F	ISO 11359
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
CTE, linear, Transverse to Flow	96.0 Åµm/m-Å°C	53.3 Åµin/in-Å°F	ISO 11359
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	98.0 Å°C	208 Å°F	Annealed, 80Å°C, 4 hours; ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	95.0 Å°C	203 Å°F	Annealed, 80Å°C, 4 hours; ISO 175
Vicat Softening Point	99.0 Å°C	210 Å°F	50 N, 50Å°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 Strength	50.0 kV/mm	1270 kV/in	IEC 243
Comparative Tracking Index	550 V	550 V	IEC 112

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

Processing Properties

Metric

English

Comments

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