

LG Chemical LUMAX HR5157 PBT+ABS+GF15%, Heat Resistance

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 20% Glass Fiber Filled , Polyester, TP , Polybutylene Terephthalate (PBT) , Polybutylene Terephthalate (PBT), 20% Glass Fiber Filled , Polybutylene Terephthalate (PBT), Heat Resistant

Material Notes:

Description: Injection Molding Grade, PBT+ABS+GF15%, Heat Resistance Application: E&E (CD ROM Tray) CAS: 9003-56-9, 65997-17-3, 24968-12-5 and 25038-59-9 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMAX-HR5157-PBTABSGF15-Heat-Resistance.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0090 cm/cm @Thickness 3.20 mm	0.0040 - 0.0090 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	77.5 MPa @Thickness 3.20 mm	11200 psi @Thickness 0.126 in	5mm/min; ASTM D638
Elongation at Break	3.0 % @Thickness 3.20 mm	3.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	127 MPa @Thickness 3.20 mm	18500 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	4.41 GPa @Thickness 3.20 mm	640 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.785 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.47 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	225 Â°C	437 Â°F	Peak at Break
Deflection Temperature at 1.8 MPa (264 psi)	175 Â°C @Thickness 6.40 mm	347 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	50.0 Â°C @Thickness >=1.50 mm	122 Â°F @Thickness >=0.0591 in	

Thermal Properties	Metric	English	Comments
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	50.0 Å°C	122 Å°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	50.0 Å°C	122 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	50.0 Å°C	122 Å°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	50.0 Å°C	122 Å°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	HB	HB	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	HB	HB	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Strength	21.0 kV/mm	533 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Arc Resistance	120 - 180 sec	120 - 180 sec	ASTM D495
Comparative Tracking Index	250 V	250 V	Solution A; IEC 60112
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	15 - 30 sec	15 - 30 sec	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
High Amp Arc Ignition, HAI	30 - 60 arcs	30 - 60 arcs	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	30 - 60 arcs	30 - 60 arcs	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Injection Rate, WTR	50.0 mm/min	1.97 in/min	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	225 - 235 Å°C	437 - 455 Å°F	Injection Molding
Middle Barrel Temperature	230 - 245 Å°C	446 - 473 Å°F	Injection Molding
Front Barrel Temperature	245 - 255 Å°C	473 - 491 Å°F	Injection Molding
Nozzle Temperature	245 - 255 Å°C	473 - 491 Å°F	Injection Molding
Melt Temperature	245 - 255 Å°C	473 - 491 Å°F	Injection Molding
Mold Temperature	60.0 - 90.0 Å°C	140 - 194 Å°F	Injection Molding
Drying Temperature	100 Å°C	212 Å°F	Injection Molding
Dry Time	4.00 - 5.00 hour	4.00 - 5.00 hour	Injection Molding

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