

LG Chemical LUPOY GP5008BF FR PC/ABS, Flame Retardance, Heat Resistance

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Description: Injection Molding, PC/ABS, Flame Retardance, Heat Resistance Application: E&E (Housing) CAS: 103598-77-2, 9003-56-9, 68928-70-1 and 1309-64-4 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-GP5008BF-FR-PCABS-Flame-Retardance-Heat-Resistance.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 250 Â°C	5.0 g/10 min @Load 4.76 lb, Temperature 482 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM D785
Tensile Strength, Yield	53.9 MPa @Thickness 3.20 mm	7820 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	50 % @Thickness 3.20 mm	50 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	82.4 MPa @Thickness 3.20 mm	11900 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	2.35 GPa @Thickness 3.20 mm	341 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	5.88 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	11.0 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	112 Â°C @Thickness 6.40 mm	234 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties	^{85.0 Â°C} Metric	^{185 Â°F} English	Comments
UL RTI, Electrical	@Thickness >=0.820 mm	@Thickness >=0.0323 in	
	85.0 Â°C	185 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	85.0 Â°C	185 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	65.0 Â°C	149 Â°F	
	@Thickness >=0.820 mm	@Thickness >=0.0323 in	
	65.0 Â°C	149 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	65.0 Â°C	149 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	70.0 Â°C	158 Â°F	
	@Thickness >=0.820 mm	@Thickness >=0.0323 in	
	70.0 Â°C	158 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	70.0 Â°C	158 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	V-0	V-0	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	5VB	5VB	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	
Dielectric Strength	38.0 kV/mm	965 kV/in	

Arc Resistance Electrical Properties	60 - 120 sec Metric	60 - 120 sec English	ASTM D495 Comments
Hot Wire Ignition, HWI	7.0 - 15 sec	7.0 - 15 sec	
	@Thickness >=0.820 mm	@Thickness >=0.0323 in	
	7.0 - 15 sec	7.0 - 15 sec	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	30 - 60 sec	30 - 60 sec	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
High Amp Arc Ignition, HAI	30 - 60 arcs	30 - 60 arcs	
	@Thickness 0.820 mm	@Thickness 0.0323 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	220 - 240 Â°C	428 - 464 Â°F	Injection Molding
Middle Barrel Temperature	235 - 255 Â°C	455 - 491 Â°F	Injection Molding
Front Barrel Temperature	250 - 265 Â°C	482 - 509 Â°F	Injection Molding
Nozzle Temperature	250 - 265 Â°C	482 - 509 Â°F	Injection Molding
Melt Temperature	235 - 265 Â°C	455 - 509 Â°F	Injection Molding
Mold Temperature	50.0 - 80.0 Â°C	122 - 176 Â°F	Injection Molding
Drying Temperature	75.0 - 85.0 Â°C	167 - 185 Â°F	Injection Molding
Dry Time	3.00 - 5.00 hour	3.00 - 5.00 hour	Injection Molding
Back Pressure	0.00200 - 0.00600 MPa	0.290 - 0.870 psi	Injection Molding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

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