

LG Chemical LUPOY GN5001RFH PC/ABS, Halogen Free Flame Retardant, Heat Resistance

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

Material Notes:

Description: Injection Molding, PC/ABS, Halogen Free Flame Retardant, Heat Resistance Application: E&E (TV, Navigation Housing) CAS: 103598-77-2, 9003-56-9 and 181028-79-5 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-GN5001RFH-PCABS-Halogen-Free-Flame-Retardant-Heat-Resistance.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 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	15 g/10 min @Load 2.16 kg, Temperature 250 Â°C	15 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	62.8 MPa @Thickness 3.20 mm	9100 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	>= 80 % @Thickness 3.20 mm	>= 80 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	93.2 MPa @Thickness 3.20 mm	13500 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	2.65 GPa @Thickness 3.20 mm	384 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 6.08 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	>= 11.4 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	103 Â°C	217 Â°F	Unannealed; ASTM D648

Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
UL RTI, Electrical	60.0 Â°C	140 Â°F	
	@Thickness >=1.20 mm	@Thickness >=0.0472 in	
	80.0 Â°C	176 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	80.0 Â°C	176 Â°F	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	
	80.0 Â°C	176 Â°F	
	@Thickness >=2.50 mm	@Thickness >=0.0984 in	
	80.0 Â°C	176 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	60.0 Â°C	140 Â°F	
	@Thickness >=1.20 mm	@Thickness >=0.0472 in	
	80.0 Â°C	176 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	80.0 Â°C	176 Â°F	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	
	80.0 Â°C	176 Â°F	
	@Thickness >=2.50 mm	@Thickness >=0.0984 in	
	80.0 Â°C	176 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	60.0 Â°C	140 Â°F	
	@Thickness >=1.20 mm	@Thickness >=0.0472 in	
	85.0 Â°C	185 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	85.0 Â°C	185 Â°F	
		@Thickness >=0.0787 in	

Thermal Properties	@Thickness >=2.00 mm Metric	in English	Comments
	85.0 Â°C	185 Â°F	
	@Thickness >=2.50 mm	@Thickness >=0.0984 in	
	85.0 Â°C	185 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness >=1.20 mm	@Thickness >=0.0472 in	
	V-0	V-0	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	V-0	V-0	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	
	V-0	V-0	
	@Thickness >=2.50 mm	@Thickness >=0.0984 in	
	V-0	V-0	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	5VB	5VB	
	@Thickness >=2.50 mm	@Thickness >=0.0984 in	
	5VB	5VB	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	5VA	5VA	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	5VA	5VA	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	ASTM D495
Comparative Tracking Index	250 - 400 V	250 - 400 V	
	30 - 60 sec	30 - 60 sec	

Electrical Properties	Metric	English	Comments
	@Thickness >=1.20 mm	@Thickness >=0.0472 in	
	30 - 60 sec	30 - 60 sec	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	30 - 60 sec	30 - 60 sec	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	
High Amp Arc Ignition, HAI	30 - 60 arcs	30 - 60 arcs	
	@Thickness 1.20 mm	@Thickness 0.0472 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 2.00 mm	@Thickness 0.0787 in	
High Voltage Arc-Tracking Rate, HVTR	80.0 - 150 mm/min	3.15 - 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	0.0200 - 0.0600 MPa	2.90 - 8.70 psi	Injection Molding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

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