

LG Chemical LUPOY GN1006FM PC, Halogen Free, Flame Retardant, Transparency

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Unreinforced, Flame Retardant

Material Notes:

Description: Injection Molding, PC, Halogen Free Flame Retardant, Transparency
 Application: IT/OA, Electric & Electronic Housing and Components
 CAS: 103598-77-2
 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-GN1006FM-PC-Halogen-Free-Flame-Retardant-Transparency.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	10 g/10 min @Load 1.20 kg, Temperature 300 Â°C	10 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	61.8 MPa @Thickness 3.20 mm	8960 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	>= 100 % @Thickness 3.20 mm	>= 100 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	91.2 MPa @Thickness 3.20 mm	13200 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	2.26 GPa @Thickness 3.20 mm	327 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 7.16 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	>= 13.4 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)	>= 130 Â°C	>= 266 Â°F	Unannealed; ASTM D648

Thermal Properties	@Thickness 6.40 mm Metric	@Thickness 0.252 in English	Comments
Vicat Softening Point	141 Å°C @Load 5.00 kg	286 Å°F @Load 11.0 lb	50Å°C/h; ASTM D1525
UL RTI, Electrical	120 Å°C @Thickness >=1.50 mm	248 Å°F @Thickness >=0.0591 in	
	120 Å°C @Thickness >=2.00 mm	248 Å°F @Thickness >=0.0787 in	
	120 Å°C @Thickness >=2.50 mm	248 Å°F @Thickness >=0.0984 in	
	120 Å°C @Thickness >=3.00 mm	248 Å°F @Thickness >=0.118 in	
UL RTI, Mechanical with Impact	110 Å°C @Thickness >=1.50 mm	230 Å°F @Thickness >=0.0591 in	
	110 Å°C @Thickness >=2.00 mm	230 Å°F @Thickness >=0.0787 in	
	110 Å°C @Thickness >=2.50 mm	230 Å°F @Thickness >=0.0984 in	
	110 Å°C @Thickness >=3.00 mm	230 Å°F @Thickness >=0.118 in	
UL RTI, Mechanical without Impact	120 Å°C @Thickness >=1.50 mm	248 Å°F @Thickness >=0.0591 in	
	120 Å°C @Thickness >=2.00 mm	248 Å°F @Thickness >=0.0787 in	
	120 Å°C @Thickness >=2.50 mm	248 Å°F @Thickness >=0.0984 in	
	120 Å°C @Thickness >=3.00 mm	248 Å°F @Thickness >=0.118 in	

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	V-1	V-1	
	@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	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+15 ohm-cm	2.00e+15 ohm-cm	ASTM D257
Arc Resistance	0.00 - 60 sec	0.00 - 60 sec	ASTM D495
Comparative Tracking Index	175 - 250 V	175 - 250 V	
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	260 - 280 Å°C	500 - 536 Å°F	Injection Molding
Middle Barrel Temperature	280 - 300 Å°C	536 - 572 Å°F	Injection Molding
Front Barrel Temperature	300 - 320 Å°C	572 - 608 Å°F	Injection Molding
Nozzle Temperature	300 - 320 Å°C	572 - 608 Å°F	Injection Molding
Melt Temperature	300 - 320 Å°C	572 - 608 Å°F	Injection Molding
Mold Temperature	80.0 - 120 Å°C	176 - 248 Å°F	Injection Molding
Drying Temperature	100 - 120 Å°C	212 - 248 Å°F	Injection Molding
Dry Time	3.00 - 5.00 hour	3.00 - 5.00 hour	Injection Molding
Back Pressure	0.981 - 3.92 MPa	142 - 569 psi	Injection Molding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

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