

LG Chemical LUPOY GN1002FH PC, Halogen Free, Flame Retardant, Heat Resistant

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

Material Notes:

Description: Injection Molding, PC, Halogen Free Flame Retardant, Heat Resistant, Chemical Resistance, High Impact Application: IT/OA

Housing and Components (Adaptor) CAS: 103598-77-2, 25232-40-0 and 139189-30-3 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-GN1002FH-PC-Halogen-Free-Flame-Retardant-Heat-Resistant.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 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	13 g/10 min @Load 1.20 kg, Temperature 300 Â°C	13 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
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	96.1 MPa @Thickness 3.20 mm	13900 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	2.45 GPa @Thickness 3.20 mm	356 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 1.18 J/cm @Thickness 3.20 mm, Temperature -30.0 Â°C	>= 2.20 ft-lb/in @Thickness 0.126 in, Temperature -22.0 Â°F	ASTM D256
	>= 7.35 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	>= 13.8 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	133 Â°C	272 Â°F	Unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Vicat Softening Point	135 Â°C	275 Â°F	120Â°C/h; ASTM D1525
	@Load 5.00 kg	@Load 11.0 lb	
UL RTI, Electrical	80.0 Â°C	176 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	80.0 Â°C	176 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	80.0 Â°C	176 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	80.0 Â°C	176 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	80.0 Â°C	176 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	80.0 Â°C	176 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 >=2.00 mm	@Thickness >=0.0787 in	
	5VA	5VA	
	@Thickness >=2.00 mm	@Thickness >=0.0787 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	270 - 285 Â°C	518 - 545 Â°F	Injection Molding
Middle Barrel Temperature	275 - 290 Â°C	527 - 554 Â°F	Injection Molding
Front Barrel Temperature	275 - 290 Â°C	527 - 554 Â°F	Injection Molding
Nozzle Temperature	270 - 285 Â°C	518 - 545 Â°F	Injection Molding

Melt Temperature Processing Properties	275 - 290 Â°C Metric	527 - 554 Â°F English	Injection Molding Comments
Mold Temperature	80.0 - 100 Â°C	176 - 212 Â°F	Injection Molding
Drying Temperature	90.0 - 100 Â°C	194 - 212 Â°F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
Back Pressure	0.981 - 3.92 MPa	142 - 569 psi	Injection Molding
Screw Speed	40 - 80 rpm	40 - 80 rpm	Injection Molding

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China