

LG Chemical LUPOY RF3208F PC, Halogen Free Flame Retardance

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

Material Notes:

Description: Injection Molding, PC, Halogen Free Flame Retardance, Light Reflectance, White Color Only
Application: LCD Back Light Unit
partsCAS: 103598-77-2 and 13463-67-1
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-RF3208F-PC-Halogen-Free-Flame-Retardance.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 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	38 g/10 min @Load 1.20 kg, Temperature 300 Â°C	38 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	53.9 MPa @Thickness 3.20 mm	7820 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	70 % @Thickness 3.20 mm	70 % @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	2.55 GPa @Thickness 3.20 mm	370 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 3.43 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	>= 6.43 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)	>= 230 Â°C @Thickness 6.40 mm	>= 446 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	80.0 Â°C	176 Â°F	

Thermal Properties	Metric @Thickness 1.60 - 1.70 mm	English @Thickness 0.0630 - 0.0669 in	Comments
UL RTI, Mechanical with Impact	80.0 Â°C @Thickness 1.60 - 1.70 mm	176 Â°F @Thickness 0.0630 - 0.0669 in	
UL RTI, Mechanical without Impact	80.0 Â°C @Thickness 1.60 - 1.70 mm	176 Â°F @Thickness 0.0630 - 0.0669 in	
Flammability, UL94	V-0 @Thickness 1.60 - 1.70 mm	V-0 @Thickness 0.0630 - 0.0669 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 - 280 Â°C	482 - 536 Â°F	Injection Molding
Middle Barrel Temperature	260 - 290 Â°C	500 - 554 Â°F	Injection Molding
Front Barrel Temperature	260 - 290 Â°C	500 - 554 Â°F	Injection Molding
Nozzle Temperature	260 - 280 Â°C	500 - 536 Â°F	Injection Molding
Melt Temperature	260 - 280 Â°C	500 - 536 Â°F	Injection Molding
Mold Temperature	45.0 - 80.0 Â°C	113 - 176 Â°F	Injection Molding
Drying Temperature	100 - 120 Â°C	212 - 248 Â°F	Injection Molding
Dry Time	5.00 - 7.00 hour	5.00 - 7.00 hour	Injection Molding
Back Pressure	0.981 - 3.92 MPa	142 - 569 psi	Injection Molding
Screw Speed	40 - 100 rpm	40 - 100 rpm	Injection Molding

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