

LG Chemical LUPOY SR3108FC 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
parts
CAS: 103598-77-2, 9003-56-9 and 13463-67-1
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-SR3108FC-PC-Halogen-Free-Flame-Retardance.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 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	18 g/10 min @Load 1.20 kg, Temperature 300 Â°C	18 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Tensile Strength, Yield	55.9 MPa @Thickness 3.20 mm	8110 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	88.3 MPa @Thickness 3.20 mm	12800 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)	>= 126 Â°C @Thickness 6.40 mm	>= 259 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Thermal Properties	^{80.0 Â°C} Metric	^{176 Â°F} English	Comments
UL RTI, Electrical	@Thickness >=0.850 mm	@Thickness >=0.0335 in	
	110 Â°C	230 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	110 Â°C	230 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	80.0 Â°C	176 Â°F	
	@Thickness >=0.850 mm	@Thickness >=0.0335 in	
	100 Â°C	212 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	100 Â°C	212 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	80.0 Â°C	176 Â°F	
	@Thickness >=0.850 mm	@Thickness >=0.0335 in	
	120 Â°C	248 Â°F	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	120 Â°C	248 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	V-1	V-1	
	@Thickness >=0.850 mm	@Thickness >=0.0335 in	
	V-0	V-0	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	V-0	V-0	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	0.00 - 60 sec	0.00 - 60 sec	ASTM D495
Comparative Tracking Index	400 - 600 V	400 - 600 V	

Electrical Properties	Metric 15 - 30 sec	English 10 - 30 sec	Comments
Hot Wire Ignition, HWI	@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	>= 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	80.0 - 150 mm/min	3.15 - 5.91 in/min	

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	60.0 - 90.0 Â°C	140 - 194 Â°F	Injection Molding
Drying Temperature	100 - 120 Â°C	212 - 248 Â°F	Injection Molding
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 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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