

LG Chemical LUPOY EF1006F PC, Halogen Free, Flame Retardant, High Heat Resistance

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

Material Notes:

Description: Injection Molding, PC, Halogen Free Flame Retardant, High Heat Resistance Application: IT/OA Housing and Components
(Adaptor) CAS: 103598-77-2 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-EF1006F-PC-Halogen-Free-Flame-Retardant-High-Heat-Resistance.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 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	12 g/10 min @Load 1.20 kg, Temperature 300 Â°C	12 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	95.1 MPa @Thickness 3.20 mm	13800 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	>= 7.55 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	>= 14.1 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	140 Å°C @Load 5.00 kg	284 Å°F @Load 11.0 lb	50Å°C/h; ASTM D1525
UL RTI, Electrical	80.0 Å°C @Thickness >=1.00 mm	176 Å°F @Thickness >=0.0394 in	
	120 Å°C @Thickness >=1.50 mm	248 Å°F @Thickness >=0.0591 in	
	120 Å°C @Thickness >=1.70 mm	248 Å°F @Thickness >=0.0669 in	
	125 Å°C @Thickness >=3.00 mm	257 Å°F @Thickness >=0.118 in	
UL RTI, Mechanical with Impact	80.0 Å°C @Thickness >=1.00 mm	176 Å°F @Thickness >=0.0394 in	
	115 Å°C @Thickness >=1.50 mm	239 Å°F @Thickness >=0.0591 in	
	115 Å°C @Thickness >=1.70 mm	239 Å°F @Thickness >=0.0669 in	
	120 Å°C @Thickness >=3.00 mm	248 Å°F @Thickness >=0.118 in	
UL RTI, Mechanical without Impact	80.0 Å°C @Thickness >=1.00 mm	176 Å°F @Thickness >=0.0394 in	
	120 Å°C @Thickness >=1.50 mm	248 Å°F @Thickness >=0.0591 in	
	120 Å°C @Thickness >=1.70 mm	248 Å°F @Thickness >=0.0669 in	
	125 Å°C @Thickness >=3.00 mm	257 Å°F @Thickness >=0.118 in	

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness >=1.00 mm	@Thickness >=0.0394 in	
	V-0	V-0	
	@Thickness >=1.50 mm	@Thickness >=0.0591 in	
	V-0	V-0	
	@Thickness >=1.70 mm	@Thickness >=0.0669 in	
	V-0	V-0	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	5VB	5VB	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	5VA	5VA	
	@Thickness >=1.70 mm	@Thickness >=0.0669 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	ASTM D495
Comparative Tracking Index	175 - 250 V	175 - 250 V	

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

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