

LG Chemical LUPOY EC5000AF PC/ABS, Flame Residence

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Description: Injection Molding, PC/ABS, Flame Residence, Anti-Static
Application: E&E (Housing)
CAS: 103598-77-2, 9003-56-9 and 68928-70-1
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-EC5000AF-PCABS-Flame-Residence.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	11 g/10 min @Load 2.16 kg, Temperature 250 Å°C	11 g/10 min @Load 4.76 lb, Temperature 482 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	52.0 MPa @Thickness 3.20 mm	7540 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	>= 50 % @Thickness 3.20 mm	>= 50 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	85.3 MPa @Thickness 3.20 mm	12400 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	>= 4.90 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	>= 9.18 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	98.0 Å°C @Thickness 6.40 mm	208 Å°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	60.0 Å°C	140 Å°F	

Thermal Properties	@Thickness 1.60 - 1.70 Metric	@Thickness 0.0630 - 0.0669 in English	Comments
UL RTI, Mechanical with Impact	60.0 Â°C @Thickness 1.60 - 1.70 mm	140 Â°F @Thickness 0.0630 - 0.0669 in	
UL RTI, Mechanical without Impact	60.0 Â°C @Thickness 1.60 - 1.70 mm	140 Â°F @Thickness 0.0630 - 0.0669 in	
Flammability, UL94	V-2 @Thickness 1.60 - 1.70 mm	V-2 @Thickness 0.0630 - 0.0669 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 - 240 Â°C	410 - 464 Â°F	Injection Molding
Middle Barrel Temperature	215 - 250 Â°C	419 - 482 Â°F	Injection Molding
Front Barrel Temperature	225 - 260 Â°C	437 - 500 Â°F	Injection Molding
Nozzle Temperature	220 - 250 Â°C	428 - 482 Â°F	Injection Molding
Melt Temperature	230 - 260 Â°C	446 - 500 Â°F	Injection Molding
Mold Temperature	50.0 - 70.0 Â°C	122 - 158 Â°F	Injection Molding
Drying Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	Injection Molding
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	Injection Molding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

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