

LG Chemical LUPOY ER5151RFA PC/ABS Mineral Filler, Halogen Free Flame Retardant

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate (PC)

Material Notes:

Description: Injection Molding, PC/ABS, Halogen Free Flame Retardant, High strength, EPEA
Application: IT&OA (Notebook PC housing)
CAS: 103598-77-2, 9003-56-9, 181028-79-5 and 14807-96-6
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-ER5151RFA-PCABS-Mineral-Filler-Halogen-Free-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm @Thickness 3.20 mm	0.0020 - 0.0040 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 260 Â°C	12 g/10 min @Load 4.76 lb, Temperature 500 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.8 MPa @Thickness 3.20 mm	9100 psi @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	108 MPa @Thickness 3.20 mm	15600 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	4.22 GPa @Thickness 3.20 mm	612 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 0.588 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	>= 1.10 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)	92.0 Â°C @Thickness 6.40 mm	198 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	60.0 Â°C	140 Â°F	
UL RTI, Mechanical with Impact	60.0 Â°C	140 Â°F	

III RTI Mechanical without Impact Thermal Properties	60.0 Â°C Metric	140 Â°F English	Comments
Flammability, UL94	V-0	V-0	
	@Thickness >=1.00 mm	@Thickness >=0.0394 in	
	V-0	V-0	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 250 Â°C	446 - 482 Â°F	Injection Molding
Middle Barrel Temperature	245 - 265 Â°C	473 - 509 Â°F	Injection Molding
Front Barrel Temperature	260 - 275 Â°C	500 - 527 Â°F	Injection Molding
Nozzle Temperature	260 - 275 Â°C	500 - 527 Â°F	Injection Molding
Melt Temperature	245 - 275 Â°C	473 - 527 Â°F	Injection Molding
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 Â°F	Injection Molding
Drying Temperature	75.0 - 85.0 Â°C	167 - 185 Â°F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
Back Pressure	0.0200 - 0.0600 MPa	2.90 - 8.70 psi	Injection Molding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

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