

LG Chemical LUPOY ER5001RFA PC/ABS, Halogen Free, Flame Retardant

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

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-ER5001RFA-PCABS-Halogen-Free-Flame-Retardant.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	25 g/10 min @Load 2.16 kg, Temperature 260 Â°C	25 g/10 min @Load 4.76 lb, Temperature 500 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.8 MPa @Thickness 3.20 mm	8820 psi @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	97.1 MPa @Thickness 3.20 mm	14100 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	>= 4.90 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	>= 9.18 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	94.0 Â°C @Thickness 6.40 mm	201 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	
UL RTI, Mechanical without Impact	60.0 Â°C	140 Â°F	

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness >=1.20 mm	@Thickness >=0.0472 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	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	225 - 240 Å°C	437 - 464 Å°F	Injection Molding
Middle Barrel Temperature	240 - 255 Å°C	464 - 491 Å°F	Injection Molding
Front Barrel Temperature	250 - 265 Å°C	482 - 509 Å°F	Injection Molding
Nozzle Temperature	250 - 265 Å°C	482 - 509 Å°F	Injection Molding
Melt Temperature	235 - 265 Å°C	455 - 509 Å°F	Injection Molding
Mold Temperature	50.0 - 80.0 Å°C	122 - 176 Å°F	Injection Molding
Drying Temperature	75.0 - 85.0 Å°C	167 - 185 Å°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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