

LG Chemical LUPOY SG5009FA PC/ABS/PMMA, Halogen Free Flame Retardant

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

Material Notes:

Description: Injection Molding, PC/ABS, Halogen Free Flame Retardant, High Gloss, Anti-scratch
Application: IT&OA (Notebook PC housing)
CAS: 103598-77-2, 9003-56-9, 9011-14-7 and 181028-79-5
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-SG5009FA-PCABSPMMA-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	0.040	0.040	Injection Molding
Linear Mold Shrinkage, Flow	0.0030 - 0.0050 cm/cm @Thickness 3.20 mm	0.0030 - 0.0050 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 250 Â°C	20 g/10 min @Load 4.76 lb, Temperature 482 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	66.7 MPa @Thickness 3.20 mm	9670 psi @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	103 MPa @Thickness 3.20 mm	14900 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	2.79 GPa @Thickness 3.20 mm	405 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	0.834 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.56 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	80.0 Â°C	176 Â°F	
UL RTI, Mechanical with Impact	80.0 Â°C	176 Â°F	
UL RTI, Mechanical without Impact	80.0 Â°C	176 Â°F	

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

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 270 Â°C	446 - 518 Â°F	Injection Molding
Middle Barrel Temperature	235 - 270 Â°C	455 - 518 Â°F	Injection Molding
Front Barrel Temperature	235 - 270 Â°C	455 - 518 Â°F	Injection Molding
Nozzle Temperature	235 - 270 Â°C	455 - 518 Â°F	Injection Molding
Melt Temperature	245 - 270 Â°C	473 - 518 Â°F	Injection Molding
Mold Temperature	90.0 - 120 Â°C	194 - 248 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	0.981 - 1.96 MPa	142 - 284 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