

LG Chemical LUPOY GN-2151F Halogen Free Modified PC, 15% Glass Fiber Reinforced, Flame Retardant, Green

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Glass Fiber Filled, Flame Retardant

Material Notes:

Among the characteristics of LUPOY polycarbonate resins are excellent mechanical properties, high heat resistance, high impact strength, and dimensional stability. Applications: Automotive: Automotive front ends, cluster pad main panel (instrument panel), lower cluster pad main, console box, glove box cover, door, wheel cover and cap, defroster grill, back mirror housing Electrical and Electronic: Monitor housing, fax housing, notebook PC housing, cellular phone case, fax and copy machine frame, CD ROM drive tray and main frame, relay case, connector, switch Industrial Parts and Household Appliance: Helmet, terminal box, electrical tool housing, industrial bobbin, distributing board box, power tool component, gears and cams, water meter housing Information Provided by LG Chem

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-GN-2151F-Halogen-Free-Modified-PC-15-Glass-Fiber-Reinforced-Flame-Retardant-Green.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	124	124	ASTM D785
Tensile Strength, Yield	83.0 MPa	12000 psi	ASTM D638
Elongation at Break	9.0 %	9.0 %	ASTM D638
Flexural Strength	140 MPa	20300 psi	ASTM D790
Flexural Modulus	4.655 GPa	675.2 ksi	ASTM D790
Izod Impact, Notched	0.980 J/cm @Temperature 23.0 Â°C	1.84 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	143 Â°C	289 Â°F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	270 - 300 Â°C	518 - 572 Â°F	
Middle Barrel Temperature	280 - 315 Â°C	536 - 599 Â°F	
Front Barrel Temperature	290 - 330 Â°C	554 - 626 Â°F	
Nozzle Temperature	290 - 330 Â°C	554 - 626 Â°F	
Melt Temperature	300 - 340 Â°C	572 - 644 Â°F	
Mold Temperature	80.0 - 115 Â°C	176 - 239 Â°F	
Drying Temperature	100 - 120 Â°C	212 - 248 Â°F	
Dry Time	3 - 5 hour	3 - 5 hour	
Screw Speed	40 - 70 rpm	40 - 70 rpm	

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