

LG Chemical LUPOY HI-1002 High Impact Modified PC, Unreinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Impact Modified

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-HI-1002-High-Impact-Modified-PC-Unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Tensile Strength, Yield	59.0 MPa	8560 psi	ASTM D638
Elongation at Break	>= 100 %	>= 100 %	ASTM D638
Flexural Strength	98.0 MPa	14200 psi	ASTM D790
Flexural Modulus	1.96 GPa	284 ksi	ASTM D790
Izod Impact, Notched	7.85 J/cm @Temperature 23.0 Â°C	14.7 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	132 Â°C	270 Â°F	ASTM D648
Flammability, UL94	V-2 @Thickness 3.00 mm	V-2 @Thickness 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	255 - 270 Â°C	491 - 518 Â°F	

Processing Properties	Metric	English	Comments
Front Barrel Temperature	270 - 290 Â°C	518 - 554 Â°F	
Nozzle Temperature	270 - 290 Â°C	518 - 554 Â°F	
Melt Temperature	280 - 300 Â°C	536 - 572 Â°F	
Mold Temperature	70.0 - 90.0 Â°C	158 - 194 Â°F	
Drying Temperature	70.0 - 90.0 Â°C	158 - 194 Â°F	
Dry Time	3 - 5 hour	3 - 5 hour	
Screw Speed	40 - 70 rpm	40 - 70 rpm	

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