

LG Chemical LUPOY HR-5007AX Heat Resistant PC/ABS Alloy, Unreinforced

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

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-HR-5007AX-Heat-Resistant-PCABS-Alloy-Unreinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ASTM D955
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 250 Â°C	3.0 g/10 min @Load 4.76 lb, Temperature 482 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	ASTM D785
Tensile Strength, Yield	55.0 MPa	7980 psi	ASTM D638
Elongation at Break	>= 100 %	>= 100 %	ASTM D638
Flexural Strength	76.0 MPa	11000 psi	ASTM D790
Flexural Modulus	1.96 GPa	284 ksi	ASTM D790
Izod Impact, Notched	5.39 J/cm @Temperature -30.0 Â°C	10.1 ft-lb/in @Temperature -22.0 Â°F	ASTM D256
	6.35 J/cm @Temperature 23.0 Â°C	11.9 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa	113 Â°C	235 Â°F	

(264 psi) Thermal Properties	Metric	English	ASTM D648 Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	220 - 260 Â°C	428 - 500 Â°F	
Middle Barrel Temperature	230 - 270 Â°C	446 - 518 Â°F	
Front Barrel Temperature	240 - 280 Â°C	464 - 536 Â°F	
Nozzle Temperature	240 - 280 Â°C	464 - 536 Â°F	
Melt Temperature	250 - 290 Â°C	482 - 554 Â°F	
Mold Temperature	60.0 - 90.0 Â°C	140 - 194 Â°F	
Drying Temperature	70.0 - 100 Â°C	158 - 212 Â°F	
Dry Time	3 - 5 hour	3 - 5 hour	
Screw Speed	40 - 70 rpm	40 - 70 rpm	

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