

LG Chemical LUPOY GP-5000FQ General Purpose PC/ABS Alloy, Unreinforced, Excellent Flow

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-GP-5000FQ-General-Purpose-PCABS-Alloy-Unreinforced-Excellent-Flow.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	ASTM D955
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 250 Â°C	14 g/10 min @Load 4.76 lb, Temperature 482 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength, Yield	56.0 MPa	8120 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Flexural Strength	82.0 MPa	11900 psi	ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790
Izod Impact, Notched	2.95 J/cm @Temperature 23.0 Â°C	5.53 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	92.0 Â°C	198 Â°F	ASTM D648
Flammability, UL94	V-2	V-2	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 270 Â°C	446 - 518 Â°F	
Middle Barrel Temperature	240 - 280 Â°C	464 - 536 Â°F	
Front Barrel Temperature	250 - 290 Â°C	482 - 554 Â°F	
Nozzle Temperature	250 - 290 Â°C	482 - 554 Â°F	
Melt Temperature	260 - 300 Â°C	500 - 572 Â°F	
Mold Temperature	70.0 - 110 Â°C	158 - 230 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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