

LG Chemical LUPOY GP-5300 General Purpose PC/ABS Alloy, 30% Polymer Alloy, High Strength, Dimensional Stability

Category : Polymer , Thermoplastic , ABS Polymer , 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-5300-General-Purpose-PCABS-Alloy-30-Polymer-Alloy-High-Strength-Dimensional-Stability.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 cm/cm	0.0010 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	108 MPa	15700 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Strength	157 MPa	22800 psi	ASTM D790
Flexural Modulus	6.86 GPa	995 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)	130 Â°C	266 Â°F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 270 Â°C	446 - 518 Â°F	

Middle Barrel Temperature Processing Properties	240 - 280 Å°C Metric	464 - 536 Å°F English	Comments
Front Barrel Temperature	250 - 290 Å°C	482 - 554 Å°F	
Nozzle Temperature	250 - 290 Å°C	482 - 554 Å°F	
Melt Temperature	260 - 300 Å°C	500 - 572 Å°F	
Mold Temperature	70.0 - 110 Å°C	158 - 230 Å°F	
Drying Temperature	70.0 - 100 Å°C	158 - 212 Å°F	
Dry Time	3 - 5 hour	3 - 5 hour	
Screw Speed	40 - 70 rpm	40 - 70 rpm	

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