

LG Chemical LUPOY NS5000C PC/ABS, High Impact

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

Material Notes:

Description: Injection Molding, PC/ABS, Heat Resistance, High Flow, High Impact Application: Automotive (Interior) CAS: 103598-77-2 and 9003-56-9 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-NS5000C-PCABS-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	4.8 g/10 min @Load 2.16 kg, Temperature 250 °C	4.8 g/10 min @Load 4.76 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength, Yield	53.0 MPa @Thickness 3.20 mm	7680 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	>= 100 % @Thickness 3.20 mm	>= 100 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	85.3 MPa @Thickness 3.20 mm	12400 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	2.16 GPa @Thickness 3.20 mm	313 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 5.39 J/cm @Thickness 3.20 mm, Temperature -30.0 °C	>= 10.1 ft-lb/in @Thickness 0.126 in, Temperature -22.0 °F	ASTM D256
	>= 6.86 J/cm @Thickness 3.20 mm, Temperature 23.0 °C	>= 12.9 ft-lb/in @Thickness 0.126 in, Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	114 °C @Thickness 6.40 mm	237 °F @Thickness 0.252 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	240 - 270 °C	464 - 518 °F	Injection Molding
Middle Barrel Temperature	245 - 275 °C	473 - 527 °F	Injection Molding
Front Barrel Temperature	245 - 275 °C	473 - 527 °F	Injection Molding
Nozzle Temperature	245 - 275 °C	473 - 527 °F	Injection Molding
Melt Temperature	250 - 275 °C	482 - 527 °F	Injection Molding
Mold Temperature	50.0 - 70.0 °C	122 - 158 °F	Injection Molding
Drying Temperature	80.0 - 100 °C	176 - 212 °F	Injection Molding
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	Injection Molding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

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