

LG Chemical LUPOY HR5007AE 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, High Flow, High Impact Application: E&E (Housing) 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-HR5007AE-PCABS-High-Impact.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 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	5.5 g/10 min @Load 2.16 kg, Temperature 250 Â°C	5.5 g/10 min @Load 4.76 lb, Temperature 482 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	53.9 MPa @Thickness 3.20 mm	7820 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	86.3 MPa @Thickness 3.20 mm	12500 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	2.26 GPa @Thickness 3.20 mm	327 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 4.41 J/cm @Thickness 3.20 mm, Temperature -30.0 Â°C	>= 8.27 ft-lb/in @Thickness 0.126 in, Temperature -22.0 Â°F	ASTM D256
	>= 6.18 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	>= 11.6 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	108 Â°C @Thickness 6.40 mm	226 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	60.0 Â°C @Thickness >=1.60 mm	140 Â°F @Thickness >=0.0630 in	
	60.0 Â°C @Thickness >=3.00 mm	140 Â°F @Thickness >=0.118 in	
UL RTI, Mechanical with Impact	60.0 Â°C @Thickness >=1.60 mm	140 Â°F @Thickness >=0.0630 in	
	60.0 Â°C @Thickness >=3.00 mm	140 Â°F @Thickness >=0.118 in	
UL RTI, Mechanical without Impact	60.0 Â°C @Thickness >=1.60 mm	140 Â°F @Thickness >=0.0630 in	
	60.0 Â°C @Thickness >=3.00 mm	140 Â°F @Thickness >=0.118 in	
Flammability, UL94	HB @Thickness >=1.60 mm	HB @Thickness >=0.0630 in	
	HB @Thickness >=3.00 mm	HB @Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec	60 - 120 sec	ASTM D495
High Voltage Arc-Tracking Rate, HVTR	>= 150 mm/min	>= 5.91 in/min	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	240 - 270 Â°C	464 - 518 Â°F	Injection Molding
Middle Barrel Temperature	245 - 275 Â°C	473 - 527 Â°F	Injection Molding
Front Barrel Temperature	245 - 275 Â°C	473 - 527 Â°F	Injection Molding
Nozzle Temperature	245 - 275 Â°C	473 - 527 Â°F	Injection Molding

Processing Properties	Metric	English	Comments
Mold Temperature	50.0 - 70.0 Â°C	122 - 158 Â°F	Injection Molding
Drying Temperature	80.0 - 100 Â°C	176 - 212 Â°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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