

LG Chemical LUPOY SC5004T PC/Polyester, Transparency

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Description: Injection Molding, PC/Polyester, General Purpose, Transparency, High Flow Application: Keypad for Mobile Phone CAS: 103598-77-2 Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-SC5004T-PCPolyester-Transparency.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm @Thickness 3.20 mm	0.0050 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	30 g/10 min @Load 1.20 kg, Temperature 300 Â°C	30 g/10 min @Load 2.65 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	60.8 MPa @Thickness 3.20 mm	8820 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	>= 150 % @Thickness 3.20 mm	>= 150 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	97.1 MPa @Thickness 3.20 mm	14100 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	>= 6.86 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	>= 12.9 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)	123 Â°C @Thickness 6.40 mm	253 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 270 Â°C	500 - 518 Â°F	Injection Molding
Middle Barrel Temperature	265 - 280 Â°C	509 - 536 Â°F	Injection Molding
Front Barrel Temperature	265 - 280 Â°C	509 - 536 Â°F	Injection Molding
Nozzle Temperature	265 - 295 Â°C	509 - 563 Â°F	Injection Molding
Melt Temperature	265 - 290 Â°C	509 - 554 Â°F	Injection Molding
Mold Temperature	40.0 - 70.0 Â°C	104 - 158 Â°F	Injection Molding
Drying Temperature	95.0 - 105 Â°C	203 - 221 Â°F	Injection Molding
Dry Time	4.00 - 6.00 hour	4.00 - 6.00 hour	Injection Molding
Back Pressure	0.981 - 3.92 MPa	142 - 569 psi	Injection Molding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

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