

LG Chemical Lupox® LW5300M PBT+PC+MF30%

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polyester, TP , Polybutylene Terephthalate (PBT)

Material Notes:

Description: Injection Molding, PBT+PC+MF30%, Low Warpage
Application: Automotive (Head Lamp Bezel)
CAS No. 24968-12-5, 103598-77-2, 25038-59-9 and 14807-96-6
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-LW5300M-PBTPCMF30.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0070 - 0.0090 cm/cm @Thickness 3.20 mm	0.0070 - 0.0090 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	57.9 MPa @Thickness 3.20 mm	8400 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	3.0 % @Thickness 3.20 mm	3.0 % @Thickness 0.126 in	5mm/min; ASTM D638
Flexural Yield Strength	97.1 MPa @Thickness 3.20 mm	14100 psi @Thickness 0.126 in	1.3mm/min; ASTM D790
Flexural Modulus	5.30 GPa @Thickness 3.20 mm	768 ksi @Thickness 0.126 in	1.3mm/min; ASTM D790
Izod Impact, Notched	0.392 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	0.735 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	225 Â°C	437 Â°F	@ Break; ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	165 Â°C @Thickness 6.40 mm	329 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	115 Â°C @Thickness 6.40 mm	239 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	235 - 250 Â°C	455 - 482 Â°F	Injection Molding
Middle Barrel Temperature	240 - 250 Â°C	464 - 482 Â°F	Injection Molding
Front Barrel Temperature	245 - 255 Â°C	473 - 491 Â°F	Injection Molding
Nozzle Temperature	245 - 255 Â°C	473 - 491 Â°F	Injection Molding
Melt Temperature	245 - 255 Â°C	473 - 491 Â°F	Injection Molding
Mold Temperature	60.0 - 100 Â°C	140 - 212 Â°F	Injection Molding
Drying Temperature	120 Â°C	248 Â°F	Injection Molding
Dry Time	4.00 - 5.00 hour	4.00 - 5.00 hour	Injection Molding

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