

LG Chemical Lupox® TE5011M PBT+PC

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

Material Notes:

Description: Injection Molding, PBT+PC, High Impact, Dimensional Stability, Good Weatherability
Application: Automotive (Bumper Back Beam)
CAS No. 24968-12-5 and 103598-77-2
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-TE5011M-PBTPC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0070 - 0.010 cm/cm @Thickness 3.20 mm	0.0070 - 0.010 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	47.1 MPa @Thickness 3.20 mm	6830 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	68.6 MPa @Thickness 6.40 mm	9960 psi @Thickness 0.252 in	2.5mm/min; ASTM D790
Flexural Modulus	1.86 GPa @Thickness 6.40 mm	270 ksi @Thickness 0.252 in	2.5mm/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
Melting Point	225 Â°C	437 Â°F	@ Break; ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	110 Â°C @Thickness 6.40 mm	230 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	91.0 Â°C @Thickness 6.40 mm	196 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 - 260 Â°C	482 - 500 Â°F	Injection Molding
Middle Barrel Temperature	250 - 260 Â°C	482 - 500 Â°F	Injection Molding
Front Barrel Temperature	255 - 265 Â°C	491 - 509 Â°F	Injection Molding
Nozzle Temperature	260 - 270 Â°C	500 - 518 Â°F	Injection Molding
Melt Temperature	260 - 270 Â°C	500 - 518 Â°F	Injection Molding
Mold Temperature	60.0 - 80.0 Â°C	140 - 176 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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