

## LG Chemical Lupox<sup>®</sup> TE5100 PBT+PC+GF10%

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

### Material Notes:

Description: Injection Molding, PBT+PC+GF10%, High Impact resistant, Dimensional Stability  
Application: Automotive (Bumper Back Beam)  
CAS No. 30965-26-5, 103598-77-2 and 65997-17-3  
Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-Lupox-TE5100-PBTPCGF10.php](http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-TE5100-PBTPCGF10.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 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 at Break	81.4 MPa @Thickness 3.20 mm	11800 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	>= 6.0 % @Thickness 3.20 mm	>= 6.0 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	127 MPa @Thickness 6.40 mm	18500 psi @Thickness 0.252 in	5mm/min; ASTM D790
Flexural Modulus	3.82 GPa @Thickness 6.40 mm	555 ksi @Thickness 0.252 in	5mm/min; ASTM D790
Izod Impact, Notched	10.8 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	20.2 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 1.8 MPa (264 psi)	110 Â°C @Thickness 6.40 mm	230 Â°F @Thickness 0.252 in	Unannealed; ASTM D648

Processing Properties	Metric	English	Comments
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<b>Rear Barrel Temperature Processing Properties</b>	<b>250 - 260 Å°C Metric</b>	<b>482 - 500 Å°F English</b>	<b>Injection Molding Comments</b>
Middle Barrel Temperature	250 - 260 Å°C	482 - 500 Å°F	Injection Molding
Front Barrel Temperature	255 - 265 Å°C	491 - 509 Å°F	Injection Molding
Nozzle Temperature	260 - 270 Å°C	500 - 518 Å°F	Injection Molding
Melt Temperature	260 - 270 Å°C	500 - 518 Å°F	Injection Molding
Mold Temperature	60.0 - 80.0 Å°C	140 - 176 Å°F	Injection Molding
Drying Temperature	120 Å°C	248 Å°F	Injection Molding
Dry Time	4.00 - 5.00 hour	4.00 - 5.00 hour	Injection Molding

## Contact Songhan Plastic Technology Co.,Ltd.

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