

LG Chemical Lupox® TE5006F PET+PC

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

Material Notes:

Description: Injection Molding, PET+PC, Flame Retardant, GWIT, CTI
Application: IT/OA, E&E (Connector)
CAS No. 68928-70-1, 103598-77-2, 25038-59-9 and 1309-64-4
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-Lupox-TE5006F-PETPC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0060 - 0.010 cm/cm @Thickness 3.20 mm	0.0060 - 0.010 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	58.8 MPa @Thickness 3.20 mm	8530 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	88.3 MPa @Thickness 3.20 mm	12800 psi @Thickness 0.126 in	2.8mm/min; ASTM D790
Flexural Modulus	2.30 GPa @Thickness 3.20 mm	334 ksi @Thickness 0.126 in	2.8mm/min; ASTM D790
Izod Impact, Notched	0.588 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.10 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
UL RTI, Electrical	75.0 Â°C @Thickness >=0.500 mm	167 Â°F @Thickness >=0.0197 in	

Thermal Properties	Metric 100 Â°C	English 200 Â°F	Comments
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	110 Â°C	230 Â°F	
	@Thickness >=1.00 mm	@Thickness >=0.0394 in	
	120 Â°C	248 Â°F	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	120 Â°C	248 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical with Impact	75.0 Â°C	167 Â°F	
	@Thickness >=0.500 mm	@Thickness >=0.0197 in	
	110 Â°C	230 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	110 Â°C	230 Â°F	
	@Thickness >=1.00 mm	@Thickness >=0.0394 in	
	120 Â°C	248 Â°F	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	120 Â°C	248 Â°F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
UL RTI, Mechanical without Impact	75.0 Â°C	167 Â°F	
	@Thickness >=0.500 mm	@Thickness >=0.0197 in	
	110 Â°C	230 Â°F	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	110 Â°C	230 Â°F	
	@Thickness >=1.00 mm	@Thickness >=0.0394 in	
	120 Â°C	248 Â°F	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	

Thermal Properties	Metric	English	Comments
	120 A C	248 A F	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness >=0.500 mm	@Thickness >=0.0197 in	
	V-0	V-0	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	V-0	V-0	
	@Thickness >=1.00 mm	@Thickness >=0.0394 in	
	V-0	V-0	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	V-0	V-0	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	
	5VB	5VB	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	5VA	5VA	
	@Thickness >=3.00 mm	@Thickness >=0.118 in	

Electrical Properties	Metric	English	Comments
Arc Resistance	0.00 - 60 sec	0.00 - 60 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	Solution A; IEC 60112
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	
	@Thickness >=0.750 mm	@Thickness >=0.0295 in	
	30 - 60 sec	30 - 60 sec	
	@Thickness >=1.00 mm	@Thickness >=0.0394 in	
	30 - 60 sec	30 - 60 sec	
	@Thickness >=1.60 mm	@Thickness >=0.0630 in	
	60 - 120 sec	60 - 120 sec	

Electrical Properties	@Thickness >=3.00 mm Metric	@Thickness >=0.118 in English	Comments
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	>= 120 arcs	>= 120 arcs	
	@Thickness 3.00 mm	@Thickness 0.118 in	
High Voltage Arc-Tracking Rate, HVTR	25.4 - 50.0 mm/min	1.00 - 1.97 in/min	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	250 - 260 Â°C	482 - 500 Â°F	Injection Molding
Middle Barrel Temperature	260 - 270 Â°C	500 - 518 Â°F	Injection Molding
Front Barrel Temperature	260 - 270 Â°C	500 - 518 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	40.0 - 80.0 Â°C	104 - 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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