Teijin PanliteÂ® LS-2250 Friction and Abrasion Resistant Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

Material Notes:

It is compounded with fluorine powder to improve friction and abrasion resistance, meeting UL 94 V-2. The friction and abrasion resistance is superior than that of polyamidoacetal, maintaining excellent properties of polycarbonate resin. Also provided are those reinforced with GF and CF.Applications:Mechanical, electric and electronic components that need abrasion and friction resistance.Information provided by Teijin Chemicals Ltd.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Teijin-Panlite-LS-2250-Friction-and-Abrasion-Resistant-Polycarbonate-Resin.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/inÂ³	ISO 1183
Water Absorption	0.17 %	0.17 %	in water, 23Â°C, 24h; ISO 62
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm @Thickness 4.00 mm	0.0050 - 0.0070 in/in @Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm @Thickness 4.00 mm	0.0050 - 0.0070 in/in @Thickness 0.157 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	50mm/min; ISO 527
Tensile Strength, Yield	50.0 MPa	7250 psi	50mm/min; ISO 527
Elongation at Break	110 %	110 %	50mm/min; ISO 527
Elongation at Yield	6.0 %	6.0 %	50mm/min; ISO 527
Tensile Modulus	2.40 GPa	348 ksi	1mm/min; ISO 527
Flexural Strength	80.0 MPa	11600 psi	2mm/min; ISO 178
Flexural Modulus	2.20 GPa	319 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179
Charpy Impact, Notched	2.50 J/cmÂ²	11.9 ft-lb/inÂ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 Âµm/m-Â°C @Temperature 20.0 Â°C	38.9 Âµin/in-Â°F @Temperature 68.0 Â°F	ISO 11359

Thermal Properties	Metric	English	Comments
CTE, linear, Transverse to Flow	70.0 µm/m-Â°C @Temperature 20.0 Â°C	38.9 µin/in-Â°F @Temperature 68.0 Â°F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	139 Â°C	282 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	130 Â°C	266 Â°F	ISO 75
Vicat Softening Point	141 Â°C	286 Â°F	50Â°C/hr, 50N; ISO 306
UL RTI, Electrical	115 Â°C @Thickness 1.47 mm	239 Â°F @Thickness 0.0579 in	UL 746B
UL RTI, Mechanical with Impact	105 Â°C @Thickness 1.47 mm	221 Â°F @Thickness 0.0579 in	UL 746B
UL RTI, Mechanical without Impact	105 Â°C @Thickness 1.47 mm	221 Â°F @Thickness 0.0579 in	UL 746B
Flammability, UL94	V-2 @Thickness 1.50 mm	V-2 @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant	3.0 @Frequency 100 Hz	3.0 @Frequency 100 Hz	IEC 60250
	3.0 @Frequency 1e+6 Hz	3.0 @Frequency 1e+6 Hz	IEC 60250
Dielectric Strength	32.0 kV/mm	813 kV/in	IEC 60243
Dissipation Factor	0.0010 @Frequency 100 Hz	0.0010 @Frequency 100 Hz	IEC 60250
	0.0090 @Frequency 1e+6 Hz	0.0090 @Frequency 1e+6 Hz	IEC 60250
Comparative Tracking Index	300 V	300 V	IEC 60112

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