

Techmer ES Plaslube[®] PC-50/TF/22 NAT Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, PTFE Filled

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Plaslube-PC-50TF22-NAT-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Water Absorption	0.12 %	0.12 %	24 Hrs; ASTM D570
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	109	109	ASTM D785
Tensile Strength at Break	51.7 MPa	7500 psi	ASTM D638
Elongation at Break	40 %	40 %	ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Compressive Strength	62.1 MPa	9000 psi	ASTM D695
Izod Impact, Notched	1.76 J/cm	3.30 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	70.2 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	39.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	135 $\text{Å}^\circ\text{C}$	275 $\text{Å}^\circ\text{F}$	ASTM D648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0625 in	

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