

Techmer ES Plaslube® J-1/30/TF/10 Nylon 66, 30% GFR, 10% PTFE

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Glass Fiber/PTFE Filled

Material Notes:

Plaslube glass fiber reinforced, polytetrafluoroethylene (PTFE) lubricated nylon 66 grades offer an excellent balance of wear and friction performance and mechanical strength. The addition of silicone to these products enhances the wear and friction performance of these grades. Typical applications include pulleys, wear slides, cams, gears and high strength bearings.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Plaslube-J-130TF10-Nylon-66-30-GFR-10-PTFE.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ASTM D792
Water Absorption	0.70 %	0.70 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm @Thickness 3.17 mm	0.0020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	169 MPa	24500 psi	ASTM D638
Flexural Yield Strength	245 MPa	35500 psi	ASTM D790
Flexural Modulus	8.62 GPa	1250 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm @Thickness 3.17 mm	2.20 ft-lb/in @Thickness 0.125 in	ASTM D256
Coefficient of Friction, Dynamic	0.27	0.27	
Coefficient of Friction, Static	0.22	0.22	
K (wear) Factor	50.4 x 10 ⁻⁸ mm ³ /N-M	25.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	Thrust washer at 2000 PV

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	257 Â°C	495 Â°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	251 Â°C	484 Â°F	ASTM D648

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