

**Techmer ES Plaslube® J-3/30/TF/15 Nylon 6, 30% GFR, 15% PTFE**

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass Fiber/Solid Lube Filled

**Material Notes:**

Plaslube glass fiber reinforced polytetrafluoroethylene (PTFE) lubricated nylon 612 grades offer a unique balance of excellent wear and friction performance with good dimensional stability and mechanical strength. These characteristics are typical of gear train, pulley, and other bearing applications. Further wear and friction performance can be achieved by utilizing both PTFE and silicone. For less dimensionally critical applications, our nylon 6 grades offer similar performance characteristics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Plaslube-J-330TF15-Nylon-6-30-GFR-15-PTFE.php](http://www.lookpolymers.com/polymer_Techmer-ES-Plaslube-J-330TF15-Nylon-6-30-GFR-15-PTFE.php)

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.85 %	0.85 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm @Thickness 3.17 mm	0.0030 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	172 MPa	25000 psi	ASTM D638
Flexural Yield Strength	221 MPa	32000 psi	ASTM D790
Flexural Modulus	9.31 GPa	1350 ksi	ASTM D790
Izod Impact, Notched	1.44 J/cm @Thickness 3.17 mm	2.70 ft-lb/in @Thickness 0.125 in	ASTM D256
Coefficient of Friction, Dynamic	0.25	0.25	
Coefficient of Friction, Static	0.20	0.20	
K (wear) Factor	161 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	80.0 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Thrust washer at 2000 PV
Limiting Pressure Velocity	0.701 MPa-m/sec	20000 psi-ft/min	at 100 FPM, ambient temperature, thrust washer.

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	213 °C	415 °F	ASTM D648

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