

## Techmer ES Plaslube® NY-1/TF/10 Nylon 66, 10% PTFE

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, PTFE Filled

### Material Notes:

Plaslube polytetrafluoroethylene (PTFE) lubricated nylon 66 grades offer the best wear and friction properties of any unreinforced, lubricated nylon compounds, making them ideal materials for bearings and bushings.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Techmer-ES-Plaslube-NY-1TF10-Nylon-66-10-PTFE.php](http://www.lookpolymers.com/polymer_Techmer-ES-Plaslube-NY-1TF10-Nylon-66-10-PTFE.php)

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.70 %	0.70 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.015 cm/cm @Thickness 3.17 mm	0.015 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	65.5 MPa	9500 psi	ASTM D638
Elongation at Break	4.5 %	4.5 %	ASTM D638
Flexural Yield Strength	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	2.90 GPa	420 ksi	ASTM D790
Izod Impact, Notched	0.427 J/cm @Thickness 3.17 mm	0.800 ft-lb/in @Thickness 0.125 in	ASTM D256
Coefficient of Friction, Dynamic	0.20	0.20	
Coefficient of Friction, Static	0.12	0.12	
K (wear) Factor	201 x 10 <sup>-8</sup> mm <sup>3</sup> /N-M	100 x 10 <sup>-10</sup> in <sup>3</sup> - min/ft-lb-hr	Thrust washer at 2000 PV
Limiting Pressure Velocity	0.420 MPa-m/sec	12000 psi-ft/min	at 100 FPM, ambient temperature, thrust washer.

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	87.8 °C	190 °F	ASTM D648

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