

Techmer ES Plaslube® AC-80/TF/15 Acetal (Copolymer), 15% PTFE

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, PTFE Filled

Material Notes:

Plaslube polytetrafluoroethylene (PTFE) lubricated acetal copolymer grades offer additional wear and friction performance over neat acetal. Typical applications include bearings, slides and small gears.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Techmer-ES-Plaslube-AC-80TF15-Acetal-Copolymer-15-PTFE.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ASTM D792
Water Absorption	0.23 %	0.23 %	24 hrs. ASTM D570
Linear Mold Shrinkage	0.020 cm/cm @Thickness 3.17 mm	0.020 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	43.4 MPa	6300 psi	ASTM D638
Flexural Yield Strength	66.2 MPa	9600 psi	ASTM D790
Flexural Modulus	2.14 GPa	310 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm @Thickness 3.17 mm	0.900 ft-lb/in @Thickness 0.125 in	ASTM D256
Coefficient of Friction, Dynamic	0.16	0.16	
Coefficient of Friction, Static	0.080	0.080	
K (wear) Factor	201 x 10 ⁻⁸ mm ³ /N-M	100 x 10 ⁻¹⁰ in ³ - 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)	102 °C	215 °F	ASTM D648

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