

TriStar FCJ Composite Bearing

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

This family of materials offers the combination of high compressive strength, low coefficient of friction, and excellent abrasion and corrosion resistance while running without lubrication. They are used in bearing and seal applications from temperature extremes of -320°F to 350°F with and without additional lubricants. TriStar FCJ Composite Bearing: Multi-layer lightweight construction provides dry lubrication with high reliability. The innermost layer features a braided synthetic fiber/PTFE tubular liner saturated with epoxy resin. A low helix angle layer of epoxy-coated glass filaments follows for axial strength. Multiple high helix angle layers comprise the outer structure and provide compressive strength. Ideally suited for non-lubricated high-load/low-speed shock load applications. Operates well in demanding and destructive environments. Rb 25 and higher steel mating surface. Material has thermal and electrical insulating properties. Suitable for use in steam, wet, dry, or vacuum environments. Markets for FCJ Composite Bearings include Agricultural, Appliances, Automotive, Construction, Industrial, and Transportation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_TriStar-FCJ-Composite-Bearing.php

Physical Properties	Metric	English	Comments
Density	1.90 g/cc	0.0686 lb/in ³	
Water Absorption	<= 0.50 % @Time 86400 sec	<= 0.50 % @Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Compressive Strength	345 MPa	50000 psi	
Izod Impact, Notched	7.47 J/cm	14.0 ft-lb/in	
Limiting Pressure Velocity	0.701 MPa-m/sec	20000 psi-ft/min	Unlubricated

Thermal Properties	Metric	English	Comments
CTE, linear	126 µm/m-°C	70.0 µin/in-°F	
Thermal Conductivity	0.202 W/m-K	1.40 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	177 °C	350 °F	
Deflection Temperature at 1.8 MPa (264 psi)	177 °C	350 °F	
Minimum Service Temperature, Air	-196 °C	-320 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.41e+18 ohm-cm	2.41e+18 ohm-cm	

Electrical Properties	Metric 15 ohm	English 5 ohm	Comments
Dielectric Constant	4.15 @Frequency 1.00e+6 Hz	4.15 @Frequency 1.00e+6 Hz	
Dissipation Factor	0.0094 @Frequency 1.00e+6 Hz	0.0094 @Frequency 1.00e+6 Hz	

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