

Polygon Polyube™ Fiber Series Epoxy Composite Bearings

Category : Polymer , Thermoset , Epoxy , Epoxy, Encapsulating, Glass or Mineral Filled

Material Notes:

Low friction coupled with high load carrying capacity are natural benefits. Teflon® superfilaments, which exhibit tensile strength twenty times greater than PTFE resins are integrated into the bearing surface. Polyube bearings resist cold flow and demonstrate impressive wear characteristics. Polygon's patented mechanical process of fiberglass filament weaving/winding results in structures of exceptional strength to support the bearing surface. A filament-wound fiberglass chemically bonded with epoxy, Polyube's structure is naturally concentric with no seam or overlap. Information provided by Polygon Company. Teflon® is a registered trademark of DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polygon-Polyube-Fiber-Series-Epoxy-Composite-Bearings.php

Physical Properties	Metric	English	Comments
Density	1.87 g/cc	0.0676 lb/in ³	
Water Absorption	0.12 %	0.12 %	2 hours
	0.16 %	0.16 %	24 hours

Mechanical Properties	Metric	English	Comments
Compressive Yield Strength	172 MPa	25000 psi	Unit Load Limit
Compressive Strength	379 MPa	55000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	12.6 µm/m-°C	7.00 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.259 - 0.331 W/m-K	1.80 - 2.30 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	163 °C	325 °F	Special Formulation can go higher
Minimum Service Temperature, Air	-196 °C	-320 °F	

Descriptive Properties	Value	Comments
Max Velocity	10 SFM	

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