TriStar Ultracomp UC-500 Composite Bearing

Category : Polymer , Thermoplastic

Material Notes:

Ultracomp UC-500 - Multiple sources of lubrication make this Ultracomp an excellent choice for full rotary or higher speed linear applications. High strength, high impact resistance and long wear life.This family of composite 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 cryogenic to over 360°F with and without additional lubricants.Ultracomp Bearing Grade Composite: Laminates composed of synthetic fabrics impregnated by thermosetting resins and solid lubricant fillers. Material is available in tubes and sheets. Ideally suited for non-lubricated ultra high-load/low-speed applications that require a low coefficient of friction. Operates well in demanding and destructive environments. Suitable for use in steam, wet, dry, or vacuum environments. Rc 35 or higher steel mating surface. Markets for Ultracomp Bearing Grade Composite include Agricultural, Appliances, Automotive, Construction, Industrial, and Transportation.

Order this product through the following link:
http://www.lookpolymers.com/polymer_TriStar-Ultracomp-UC-500-Composite-Bearing.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	
Water Absorption	<= 0.10 %	<= 0.10 %	24 hrs

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	65.5 MPa	9500 psi	
Flexural Strength	93.1 MPa	13500 psi	
Compressive Yield Strength	128 MPa	18500 psi	Perpendicular to Laminate
Ultimate Compressive Strength	345 MPa	50000 psi	Perpendicular to Laminate
Compressive Modulus	5.17 GPa	750 ksi	Perpendicular to Laminate
Izod Impact, Notched	<= 10.7 J/cm	<= 20.0 ft-lb/in	
Coefficient of Friction, Static	0.15	0.15	Dry vs. Steel

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	168 °C	335 °F	Continuous
	182 °C	360 °F	Short Term
Minimum Service Temperature, Air	-240 °C	-400 °F	Embrittlement Temp

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