

TriStar TriSteel PR Metal Backed PTFE Bearing System

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

Material Notes:

Ultraflon 602e enhanced PTFE (PR) lined metal backed bearing , high speed reciprocating, self lubricating, high temperature and high load applications. Liner is designed specifically for high frequency dither applications such as valves, shock absorbers, hydraulic controls for both lubricated or dry use. Excellent wear properties compared to other TriSteel liner choices.

Order this product through the following link:

http://www.lookpolymers.com/polymer_TriStar-TriSteel-PR-Metal-Backed-PTFE-Bearing-System.php

Physical Properties	Metric	English	Comments
Density	3.15 g/cc	0.114 lb/in ³	
Water Absorption	0.010 % @Time 86400 sec	0.010 % @Time 24.0 hour	
Deformation	3.1 %	3.1 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	
Tensile Strength, Yield	16.9 MPa	2450 psi	
Elongation at Break	150 %	150 %	
Flexural Strength	19.3 MPa	2800 psi	
Flexural Modulus	1.10 GPa	160 ksi	
Compressive Yield Strength	20.3 MPa @Strain 2.00 %	2950 psi @Strain 2.00 %	
Compressive Strength	248 MPa	36000 psi	Maximum Static Bearing Load
K (wear) Factor	18.1 x 10 ⁻⁸ mm ³ /N-M	9.00 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	
Limiting Pressure Velocity	1.75 MPa-m/sec	50000 psi-ft/min	Unlubricated. Max P = 36,000 psi and max V = 1000 fpm

Thermal Properties	Metric	English	Comments
CTE, linear	84.6 μm/m-°C	47.0 μin/in-°F	
Thermal Conductivity	41.5 W/m-K	288 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	260 °C	500 °F	Continuous

Thermal Properties	288 °C Metric	550 °F English	Short Term Comments
Brittleness Temperature	-184 °C	-300 °F	

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