

TriStar TriSteel AT Metal Backed PTFE Bearing System

Category : Polymer , Thermoplastic , Acetal (POM) , Fluoropolymer , PTFE

Material Notes:

Ultraflon 601T (AT) POM bronze with PTFE, lined metal back bearing system, high PV, self lube, high speed. This liner will run with zero lubrication required. Most commonly used in clip bearings, lift and tilt on medium speed and load applications. Liner thickness allows for secondary machining to accommodate misalignment or minor ID tolerance corrections.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in ³	
Water Absorption	0.020 %	0.020 %	
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Tensile Strength, Yield	51.7 MPa	7500 psi	
Elongation at Break	12 %	12 %	
Flexural Strength	103 MPa	15000 psi	
Flexural Modulus	1.03 GPa	150 ksi	
Compressive Yield Strength	117 MPa	17000 psi	
	@Strain 2.00 %	@Strain 2.00 %	
Compressive Strength	172 MPa	25000 psi	Maximum Static Bearing Load
Compressive Modulus	2.14 GPa	310 ksi	
K (wear) Factor	161 x 10 ⁻⁸ mm ³ /N-M	80.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	
Limiting Pressure Velocity	1.26 MPa-m/sec	36000 psi-ft/min	Unlubricated. Max P = 25,000 psi and max V = 300 fpm

Thermal Properties	Metric	English	Comments
CTE, linear	32.4 µm/m-°C	18.0 µin/in-°F	
Maximum Service Temperature, Air	82.2 °C	180 °F	Continuous
	98.9 °C	210 °F	Short Term

Brittleness Temperature	-40.0 °C	-40.0 °F	
Thermal Properties	Metric	English	Comments

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