KUHNE INDUSTRIE BV

Multiglide Polylube PGHT

Properties	Units	
Density	g/cm³	1,87
Ultimate Compressive Strength	MPa	412
Normal Working Pressure	MPa	206
Swell in water	After 2 hours	0,12%
	After 24 hours	0,16%
Coefficient of Friction	DRY	0,075 – 0,21
Coefficient of Thermal Expansion	m/m/℃	8.69 x 10^{-6}
Maximum Velocity	m/s	0.05
Maximum Continous Operating Temperature	℃	204
Maximum Intermittent Operating Temperature	℃	260

Product description:

The Multiglide PolyLube PGHT bearing is a high load, low RPM bearing designed for applications where self-lubrication is desired, but conventional composite bearings will not perform at high temperatures. This product has been designed to provide excellent performance at elevated temperatures. With a glass transition temperature of over 260℃ this epoxy filament wound structure exhibits superb performance over extended exposure to elevated temperatures.

Application:

Multiglide Polylube PGHT (high temperature applications) are not just for elevated temperature environments but also for applications where the bearing may need to resist thermal expansion during operation. One example of this is in snowmobile clutch markets. In these applications, the clutch speed goes from 0 to very high RPM's in micro-seconds (and vice versa). During this cycling, friction is rising because speed is being dramatically increased. As the friction goes up so does the temperature of the associated components.

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