

Brandenburger BL 70 Slide Bearing Material

Category : Polymer , Thermoset , Filled/Reinforced Thermoset

Material Notes:

BL 70 is a low friction material that exhibits stability at high temperatures. Its applications include high-load low friction tracks and linings in transport and conveying systems, high-stressed bearing bushes and sliding strips in heavy machine construction, axial bearing segments and bearing brushes in hot-water circulation pumps, and others. Information provided by Brandenburger Isoliertechnik GmbH&Co.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Brandenburger-BL-70-Slide-Bearing-Material.php

Physical Properties	Metric	English	Comments
Density	2.20 g/cc	0.0795 lb/in ³	
Water Absorption	0.00 %	0.00 %	24 hrs; DIN 53 495

Mechanical Properties	Metric	English	Comments
Compressive Strength	15.0 MPa	2180 psi	At compression strain of 3%; EN ISO 604
	2.00 MPa @Temperature 200 °C	290 psi @Temperature 392 °F	ISO 604
Charpy Impact, Notched	2.50 J/cm ²	11.9 ft-lb/in ²	EN ISO 179
Coefficient of Friction, Dynamic	0.050	0.050	Dry, Sliding

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C	66.7 µin/in-°F	DIN 53 752
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ft ² -°F	ambient; DIN 52612
	0.370 W/m-K @Temperature 200 °C	2.57 BTU-in/hr-ft ² -°F @Temperature 392 °F	DIN 52612
Maximum Service Temperature, Air	280 °C	536 °F	Long Term

Descriptive Properties	Value	Comments
Abrasion	.002 mm/km	dry against ball bearing, bearing pressure 5.5 MPa, circumferential speed 4 m/min

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