

Fluorseals PTFE 15% glass filled

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Glass Filled, Molded

Material Notes:

Improved compressive strength and wear resistance. Information provided by TEKU GmbH Fluorkunststoffe, a distributor of Fluorseals materials.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Fluorseals-PTFE-15-glass-filled.php

Physical Properties	Metric	English	Comments
Density	2.21 g/cc	0.0798 lb/in ³	ASTM 1457-62 T
Deformation	10 - 17 %	10 - 17 %	14 MPa, 100 h, 23°C; ASTM D621-59

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	29.0 MPa	4210 psi	ASTM 1457-62 T
Tensile Strength at Break	16.0 MPa	2320 psi	ASTM 1457-62 T
Elongation at Break	300 %	300 %	ASTM 1457-62 T
Coefficient of Friction, Dynamic	0.135 - 0.16	0.135 - 0.16	v = 1 m/s
	0.14 - 0.18	0.14 - 0.18	v = 1.9 m/s
Abrasion	2.4	2.4	mm of depth after 200 hrs load duration; Partner Material ST 50

Thermal Properties	Metric	English	Comments
CTE, linear	110 µm/m-°C	61.1 µin/in-°F	DIN 52328
	@Temperature 100 °C	@Temperature 212 °F	
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft ² -°F	DIN 52612

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	DIN 53482
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	DIN 53482

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