

Fluorseals PTFE 25% 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-25-glass-filled.php

Physical Properties	Metric	English	Comments
Density	2.24 g/cc	0.0809 lb/in ³	ASTM 1457-62 T
Deformation	7.0 - 14 %	7.0 - 14 %	14 MPa, 100 h, 23 ^o C; ASTM D621-59

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	30.0 MPa	4350 psi	ASTM 1457-62 T
Tensile Strength at Break	15.0 MPa	2180 psi	ASTM 1457-62 T
Elongation at Break	370 %	370 %	ASTM 1457-62 T
Coefficient of Friction, Dynamic	0.145 - 0.17	0.145 - 0.17	v = 1 m/s
	0.14 - 0.21	0.14 - 0.21	v = 1.9 m/s
Abrasion	2.1	2.1	mm of depth after 200 hrs load duration; Partner Material ST 50

Thermal Properties	Metric	English	Comments
CTE, linear	100 $\mu\text{m/m-}^{\circ}\text{C}$	55.6 $\mu\text{in/in-}^{\circ}\text{F}$	DIN 52328
	@Temperature 100 $^{\circ}\text{C}$	@Temperature 212 $^{\circ}\text{F}$	
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft ² - $^{\circ}\text{F}$	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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