

## Fluorseals PTFE 25% carbon filled

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Carbon Fiber Filled

**Material Notes:**

Improved compressive strength, wear resistance and thermal conductivity. 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-carbon-filled.php](http://www.lookpolymers.com/polymer_Fluorseals-PTFE-25-carbon-filled.php)

Physical Properties	Metric	English	Comments
Density	2.09 g/cc	0.0755 lb/in <sup>3</sup>	ASTM 1457-62 T
Deformation	6.0 %	6.0 %	14 MPa, 100 h, 23 <sup>o</sup> C; ASTM D621-59

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	38.0 MPa	5510 psi	ASTM 1457-62 T
Tensile Strength at Break	14.0 MPa	2030 psi	ASTM 1457-62 T
Elongation at Break	170 %	170 %	ASTM 1457-62 T
Coefficient of Friction, Dynamic	0.12 - 0.14	0.12 - 0.14	v = 1 m/s
	0.12 - 0.15	0.12 - 0.15	v = 1.9 m/s
Abrasion	0.55	0.55	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	0.700 W/m-K	4.86 BTU-in/hr-ft <sup>2</sup> - $^{\circ}\text{F}$	DIN 52612

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 ohm-cm	1000 ohm-cm	DIN 53482
Surface Resistance	1000 ohm	1000 ohm	DIN 53482

## Contact Songhan Plastic Technology Co.,Ltd.

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