



25% Glass PTFE Datasheet

Typical properties of 25% glass-filled PTFE:

Property	Method	Units	Specifications
Specific gravity	ASTM D4884	g/cm ³	2.230 - 2.260
Tensile strength	ASTM D4894	MPa	≥ 13
Elongation	ASTM D4894	%	≥ 180
Hardness	ASTM D2240	Shore D	≥ 60
Compression strength at 1% deformation		MPa	≥ 9
Deformation under load (14 N/mm ² for 24 h at 23° C)	ASTM D621	%	9 - 11
Permanent deformation (after 24 h relaxation at 23° C)	ASTM D621	%	5.0 - 6.5
Coefficient of linear thermal expansion (T = 25 - 100 °C)	ASTM D696	10 ⁻⁵ /°C	
<i>From 25 to 100° C</i>			7.7 - 11.2
<i>From 25 to 150° C</i>			8.5 - 11.6
<i>From 25 to 200° C</i>			9.5 - 12.6
<i>From 25 to 250° C</i>			11.5 - 15.1
Coefficient of static friction	ASTM D1894		0.17 - 0.19
Coefficient of dynamic friction	ASTM D1894		0.15 - 0.17
Volume resistivity	ASTM D257	Ohm/cm	10 ¹⁵
Service temperature		C°	-200 / +260

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