



20% Graphite PTFE Datasheet

Typical properties of 20% graphite-filled PTFE:

Property	Method	Units	Specification
Specific gravity	ASTM D792	g/cm ³	2.120 - 2.180
Tensile strength	ASTM D4894	MPa	≥ 14
Elongation	ASTM D4894	%	≥ 140
Hardness	ASTM D2240	Shore D	≥ 55
Deformation under load (140 Kg/cm ² for 24 h at 23° C)	ASTM D621	%	9.5 - 11
Permanent deformation (after 24 h relaxation at 23° C)	ASTM D621	%	4.5 - 5
Coefficient of linear thermal expansion (T = 25 - 100 °C)		10 ⁻⁵ /°C	7 - 12
Coefficient of static friction			0.12 - 0.14
Coefficient of dynamic friction			0.09 - 0.11
Volume resistivity	ASTM D257	Ohm/cm	10 ⁵
Aging and weatherability			Stable over 20 years of exposure
Service temperature		C°	-200 / +260

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