



35% Carbon PTFE Datasheet

Typical properties of 35% carbon coke PTFE:

Property	Method	Units	Specification
Specific gravity	ASTM D792	g/cm ³	2.030 - 2.090
Tensile strength	ASTM D4894	MPa	≥ 15
Elongation	ASTM D4894	%	≥ 40
Hardness	ASTM D2240	Shore D	≥ 63
Deformation under load (140 Kg/cm ² for 24 h at 23° C)	ASTM D621	%	4.5 - 5.5
Permanent deformation (after 24 h relaxation at 23° C)	ASTM D621	%	2 - 3
Coefficient of linear thermal expansion (T = 25 - 100 °C)		10 ⁻⁵ /°C	6 - 9.5
Coefficient of static friction			0.14 - 0.16
Coefficient of dynamic friction			0.13 - 0.15
Volume resistivity	ASTM D257	Ohm/cm	10 ⁴
Aging and weatherability			Stable over 20 years of exposure
Radiation resistance (gamma rays)	low:		Electrical properties unchanged, mechanical properties decreased
Service temperature		C°	-200 / +260

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