

Technical Data Sheet



PTFE GF 25 %

Polytetrafluorethylen

General properties	Test method	Unit	Guideline value
Density	ASTM D 792	g / cm ³	2,225
Flammability	UL 94	-	V0
Wear factor	ASTM D 3702	cm ³ min10 ⁻⁸ / kg mh	12,5
Mechanical properties			
Tensile strength	ASTM D 4894	MPa	15,7
Elongation at break	ASTM D 4894	%	220
Dielectric strength	ASTM D 149	kV/mm	13
Deformation under load	ASTM D 621	%	8
Permanent deformation	ASTM D 621	%	5
Coefficient of static friction	ASTM D 1894	%	0,08
Sliding friction coefficient	ASTM D 1894	%	0,06
Deformation due to compressive stress	ASTM D 695	N/mm ²	8,5
Shore hardness D	ASTM D2240	---	69
Thermal properties			
Thermal conductivity	DIN 52612	W / (m * K)	0,41 - 0,46
Linear coefficient of expansion	ASTM D696	1 / (°C * 10 ⁻⁵)	8
Working temperature	-	°C	-200/+260
Electrical properties			
Volume resistivity	ASTM D 257	Ω * cm	10 ¹⁶
Surface resistivity	ASTM D 257	Ω	10 ¹⁵

The values given are mean values which are backed up by continuous statistical checks. They serve merely as information about our products and are intended as an aid to material selection. They do not constitute a legally binding guarantee of specific properties or suitability for specific applications.