

PTFE 25% GF



POLYTETRAFLUORETHYLEN WITH GLASS FIBRE

Material description

PTFE with glass is a so-called compound, i.e. a mixture of pure virgin PTFE with approximately 25 percent glass by weight. This additive increases the compressive strength and wear resistance. PTFE with glass is not recommended for dynamic sliding applications because of the glass abrasion.

Conformities

RoHS, REACH

Physical properties	Test method	Value	Unit
Density	DIN EN ISO 1183-1	2.2	g/cm ³
Water absorption	DIN EN ISO 62	0.03	%
Sliding friction			
Abrasion resistance			

Mechanical properties	Test method	Value	Unit
Yield stress	DIN EN ISO 527	13	MPa
Elongation at break	DIN EN ISO 527	180	%
Shore Hardness D	ISO 868	58	

Thermal properties	Test method	Value	Unit
Thermal conductivity	DIN 52612-2	0.41	W/(m*K)
Coefficient of thermal expansion	DIN 53752	77-112	10 ⁻⁶ *K ⁻¹
Operating temperature short term		300	°C
Operating temperature long term		260	°C
Flammability	UL 94, 3 mm	V0	

Electrical properties	Test method	Value	Unit
Volume resistivity	IEC 60093	10 ¹⁵	Ω * cm
Surface resistivity	IEC 60093	10 ¹⁴	Ω * cm

These technical data have been determined as average values by our suppliers from many individual measurements. In all measurements, the test specimens were tested in the dry state. We pass on the data with reservation. The table does not claim to be complete or correct. Material technology is subject to constant further development. No rights or guarantees can be derived from it. Own tests are necessary because the environmental and operating conditions (humidity, temperature, mechanical forces, radiation and chemicals, etc.) set limits in the application.