PTFE 25% CARBON POLYTETRAFLUOROETHYLENE WITH CARBON

Material description

PTFE with carbon is a so-called compound, i.e. a mixture of pure virgin PTFE with approximately 25 percent carbon by weight. This additive increases the compressive strength, wear resistance and thermal conductivity.

Conformities

RoHS, REACH

Physical properties	Test method	Value	Unit
Density	DIN EN ISO 1183-1	2.05	g/cm3
Water absorbtion	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	60	%
Tensile modulus of elasticity	DIN EN ISO 527	1275	MPa
Ball indentation hardness	DIN EN ISO 2039-1	30	MPa

Test method	Value	Unit
DIN 52612-2	0.59	W/(m*K)
DIN 53752	70-125	10 ^{-6*K} -1
	300	°C
	260	°C
UL 94, 3 mm	VO	
	DIN 52612-2 DIN 53752	DIN 52612-2 0.59 DIN 53752 70-125 300 260

Electrical properties	Test method	Value	Unit	
Volume resistivity	IEC 60093	10 ⁴	Ω * cm	
Surface resistivity	IEC 60093	10 ³	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.



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