## **PEEK MOD.** POLYETHER ETHER KETONE MODIFIED

## Material description

PEEK - modified contains additives of carbon fibre, graphite and PTFE. This improves the sliding and wear behaviour of this material. PEEK - modified is suitable for highly stressed sliding applications.

## Conformities

RoHS, REACH

Physical properties	Test method	Value	Unit
Density	DIN EN ISO 1183-1	1.46	g/cm3
Water absorbtion	DIN EN ISO 62	0.15	%
Sliding friction		•	
Abrasion resistance			

Mechanical properties	Test method	Value	Unit
Yield stress	DIN EN ISO 527	75	MPa
Elongation at break	DIN EN ISO 527	4	%
Tensile modulus of elasticity	DIN EN ISO 527	4900	MPa
Notched impact strength	DIN EN ISO 527	5	kJ/m2
Ball indentation hardness	DIN EN ISO 2039-1	220	MPa

Thermal properties	Test method	Value	Unit
Thermal conductivity	DIN 52612-2	0.24	W/(m*K)
Heat capacity	DIN 52612-1	1.06	kJ/(kg*K)
Coefficient of thermal expansion	DIN 53752	30	10 <sup>-6*K</sup> -1
Operating temperature short term		310	°C
Operating temperature long term		-30 bis 250	°C
Heat deflection temperature	DIN EN ISO 75 / A	293	°C
Flammability	UL 94, 3 mm	VO	

Electrical properties	Test method	Value	Unit
Volume resistivity	IEC 60093	10 <sup>7</sup>	Ω * cm
Surface resistivity	IEC 60093	10 <sup>7</sup>	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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