

# PEEK

## Polyether ether ketone

Properties	Norm	Value	Unit
<b>Mechanical properties</b>			
Hardness shore D	ISO 868	84,5	Sh. D.
Ball pressure hardness	DIN 53 456	230	N/mm <sup>2</sup>
Tensile strenght (23°C)	DIN 53 455	110	N/mm <sup>2</sup>
Elongation at break (23°C)	DIN 53 455	20	%min
Tensile modulus	DIN 53 457	4200	N/mm <sup>2</sup>
Coefficient of friction v-steel - dynamic	-	0,35	-
<b>Physical properties</b>			
Water absorption	DIN 53 495	0,45	%
<b>Electrical properties</b>			
Dielectric strenght	DIN 53 481	24	KV/mm
<b>Thermal properties</b>			
Coefficient of thermal expansions (20-150°C)	-	5	1/K.10-5
Thermal conductivity (23°C)	DIN 53 612	0,25	W/K.m
Maximum Continous operating temperature	-	250	°C
Minimum Continous operating temperature	-	-60	°C

### Product Properties

- FDA food contact compliant
- Excellent wear & friction behaviout
- Low permeability
- Low abrasion at the counterpart surface of soft metals
- Good dimensional stability at high temperature
- Good electrical strenght
- High mechanical strenght, stiffness and creep resustance
- Fatigue resistant
- Flame retardant
- Excellent chemical resistance

**Disclaimer:** Information contained in this data sheet is up-to-date and correct as at the date of issue. The given information is only informative and we cannot guarantee the accuracy nor can we take any accountability for the use of this information. The customer is responsible for the quality of products and has to test usage and processing to use. Some values are based on the datasheet of supplier, internal test and research. The values are guideline values that can be used for comparison for material selection.