

PEEK diet

Poly-Ether-Ether-Keton, beige

- Very good chemical and mechanical properties
- Resistant to HFC, HFD-U, HETG = biological base, acid oils and gases, cold and hot water, diluted acids and steam
- Applicable for Rod and Piston Seals

Properties	Value	Unit	DIN Standard
Density	1,32	g/cm ³	ISO 1183
Tensile strength	97	MPa	ISO 527
Elongation at break	≥ 60	%	ISO 527
Tensile modulus	3600	MPa	ISO 527
Hardness Rockwell (R/L/M)	M99		ISO 868, ISO 2039-2
Izod test at 23 °C	6,4	KJ/m ²	ISO 180/1A
Charpy test at 23°C	8,2	KJ/m ²	ISO 179/1eA
Thermal conductivity	0,25	W/K m	DIN 52 612
Linear expansion	47	10 ⁻⁶ /k	ISO 11359
Melting temperature	340	°C	ISO 11357
Temperature strength A	152	°C	ISO 75 HDT/A 1.8
max. Service temperature short	300	°C	
max. Service temperature constant	240	°C	
min. Service temperature	-65	°C	

Confirmation according FDA

Hereby we, Trygonal, Kunststoffinnovationen GmbH, confirm, that all single components used for our compound named «PeeK diet» are listed on Code of Federal Regulation of U.S. Food and Drug Administration (FDA), Rockville MD. They are mentioned under following subchapters: **21 CFR 177.2415**

All above stated data result from random tests which were taken from the ongoing production. All data were established based on standard test-specimen according to ISO, DIN and ASTM standards and can basically not be carried over to the construction element.

Our applied technical advice, either oral, written or through tests is given according to our best knowledge. However, this information is to be considered as non-obligatory instruction, also in terms of any protective rights of a third party, and does not exempt you from testing our product in reference to its suitability for the intended process and purpose. Utilisation, application and processing of the products occur entirely outside of our control and are therefore exclusively your responsibility. However, should a case of liability come into question, it will be limited to all damages in the value of the product which we delivered and you used. By all means, we do warrant the impeccable quality of our products in accordance with our general sales and delivery conditions.