



PEEK nature diet

Polyetheretherketone

Standard colour: 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 |
| Density stress | 97 | MPa | ISO 527 |
| Elongation at rupture | ≥ 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 nature diet**» are listed on Code of Federal Regulation of U.S. Food and Drug Administration (FDA), Rockville MD. They are mentioned under following subchapters: **FDA § 177.2415, CFR title 21**

All above stated data results from random tests which were taken from the ongoing production. All data was established based on standard test-products according to ISO, DIN and ASTM standards and can basically not be carried over to the completed seal.

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.