

PTFE PEEK

Mechanical, Physical and Thermal Properties

| properties | condition | standard | unit | unit |
|----------------------------------|----------------|----------------------|--|--|
| colour | | | cream | cream |
| density/specific gravity | 23 °C | DIN 53479 | kg/m ³ | 2050 g/cm ³ 2,05 |
| hardness | 23 °C | ISO 868 | Shore D | 60 ±3 Shore D 60 ±3 |
| ball indentation hardness | 23 °C | DIN 53456 H135/30 | MPa | psi |
| tensile strength | 23 °C | ASTM D 4745-79 | MPa | ≥ 21 psi ≥ 3045 |
| elongation at break | 23 °C | ASTM D 4745-79 | % | ≥ 220 % ≥ 220 |
| compressive strength | 23 °C | DIN 53455 | MPa | psi |
| thermal conductivity | | DIN 52612 | $\frac{J \cdot 10^3}{m \cdot h \cdot K}$ | $\frac{J \cdot 10^3}{m \cdot h \cdot K}$ |
| coefficient of thermal expansion | 25 °C - 200 °C | | $K^{-1} \cdot 10^{-5}$ | $K^{-1} \cdot 10^{-5}$ |
| coefficient of friction * | 23 °C | | μ | μ |
| minimum service temperature | | | °C | -200 °F -328 |
| maximum service temperature | | | °C | 260 °F 500 |
| young's modulus | 23 °C | DIN 53457 | MPa | psi |

* coefficient of friction dry dynamic Steel 16MnCr5 v=0,6m/s; p=0,05 MPa; t=5h

CHEMICAL PROPERTIES

Filled PTFE

Resistant to almost all chemicals

Not resistant to halogenides, elemental fluorine, CF₃, molten alkali metals

Foodstuff applications: FDA

Detailed information concerning chemical resistance see Chemical Resistance Guide

DUBLIN

Unit B1
Nangor Road Business Park
Dublin D12 TNY6

T: +353 (0)1 427 7900
E: dublin@abbeyseals.ie

CORK

31B Euro Business Park
Little Island
Cork T45 X310

T: +353 (0)21 500 3555
E: cork@abbeyseals.ie