



PTFE standard values

| Properties | Unit | PTFE |
|---|------------------------|--|
| Injection moulding and extrusion temperature | °C | * |
| Maximum continuous operating temperature without load | °C | +260 |
| Embrittlement below | °C | -250 |
| Crystallite melting point | °C | +327 |
| Apparent density | g/cm ³ | 2,14 to 2,23 |
| Tear resistance | N/mm ² | 20 to 40 |
| Elongation at break | % | 140 to 400 |
| E-modulus (tensile) | N/mm ² | 350 to 750 |
| Limiting flexural stress | N/mm ² | 18 to 20 |
| Notched impact strength (20°C) | kJ/m ² | 16 |
| Impact Strength/Izod | | |
| at +20 °C | J/m | 160 |
| at -57 °C | J/m | 107 |
| Shore hardness D | | 55 to 60 |
| Linear coefficient of thermal expansion at 20 – 100°C | 10 ⁻⁵ * K-1 | 16 |
| Thermal conductivity at +20 °C | W/mK | 0,24 |
| Oxygen index | Vol.-% O ₂ | 95 |
| Specific insulation resistance | Ohm x cm | 10 ¹⁸ |
| Surface resistance | Ohm | 10 ¹⁷ |
| Water absorption | | |
| Comparison values – 24 h | % | 0,00 |
| Swelling agents | | None in the operating temperature range |
| Chemical corrosion by | | Molten or dissolved metal, elementary fluorine, FCl ₃ at high temperatures. |