

Polytetrafluoroethylene (PTFE or Teflon) is a relatively soft and chemically very inert thermoplastic, resistant to acids, bases, ketones, alcohols, benzines, oils and other chemicals.
Excellent for applications from -200 to 260°C. PTFE has very good sliding properties.

Mechanical properties:

| | | |
|---------------------------|-------------------|-----------|
| Tensile strength at break | DIN EN ISO 527 | 19-30 MPa |
| Elongation at break | DIN EN ISO 527 | 190-350% |
| Ball indentation hardness | DIN EN ISO 2039-1 | 25-30 MPa |
| Shore hardness D (15 s) | DIN EN ISO 868 | 55-59 |

Thermal properties:

| | | |
|---------------------------------|-----------|---------------------------|
| Linear thermal expansion coeff. | DIN 53752 | 10-16 10 ⁻⁵ /K |
|---------------------------------|-----------|---------------------------|

Electrical properties:

| | | |
|---------------------|---------------|----------------------|
| Surface resistivity | DIN IEC 60093 | 10 ¹⁷ Ohm |
| Dielectric strength | DIN IEC 60167 | 40-80 kV/mm |

Typical properties:

| | | |
|--------------------|-----------|----------------------------|
| Fire behaviour | UL 94 | V-0 |
| Density | DIN 53479 | 2.14-2.2 g/cm ³ |
| Temperature range | | -200 to +260°C |
| Weather resistance | | ✓ |
| Water absorption | | hardly |

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The figures shown are the data of the sheet manufacturers. Values may differ depending on the production batch. This data sheet is not a guarantee for exact compliance with the values!