



TECHNICAL DATA SHEET

P.T.F.E. (Poly Tetra Fluoro Ethylene) "TEFLON" Virgin Gradr

Rod Sheet Colour: OFF-White

GENERAL

Density	2,18 g/cm ³	ISO 1183	DIN 53479
Food Compliance - YES		FDA / BfR	

MECHANICAL PROPERTIES

Tensile stress at yield at break	25 N/mm ²	ISO 527	DIN53455
Elongation at break	280 %	ISO 527	DIN53455
Compression test 1% strain 1000h	4 N/mm ²	ISO 899	DIN53444
Shore hardness (D)	D55	ISO2039.2	DIN53456
Coefficient of friction to steel ^[12]	0,09	ISO 8295	DIN 53375

THERMAL PROPERTIES

Melting point	330 °C	ISO 3146	
Thermal conductivity	0,20 W/(km)	ISO 22007.2	DIN 52612
Linear expansion coefficient 23-60°C	160 x 10 ⁻⁶ K ⁻¹	ISO 11359	DIN 53752
Operating temperature continuously ^[17]	250 °C		
Operating temperature short period-no load ^[18]	260 °C		
Minimum operating temperature ^[19]	-200 °C		

ELECTRICAL PROPERTIES

Dielectric constant at 1 MHz.	2,1	ISO 250	DIN 53483
Dielectric strength	55 KV/mm	ISO 243	DIN 53481
Volume resistivity	10 ¹⁷ Ωcm	ISO 93	DIN 53482
Dissipation factor tan Δ at 1MHz	0,0002	ISO 250	DIN 53483

Characteristics:

- Excellent Mechanical Properties
- Excellent Thermal Properties
- Superior Wear / Creep Resistance
- Excellent Dimensional Stability
- Physiologically Inert

Applications:

- Compressor Valves & Rings
- Transmission Components
- Centrifugal Pump Wear Parts
- Etch Rings
- Chevrons
- Slide Bearings & Pipe Supports
- Electrical & Thermal Insulators

Please Note: The above Technical Data Sheet is a general guide to the physical properties of the material. This information is given without Warranty or Liability. It is the customers responsibility to determine if this product is suitable for the application.