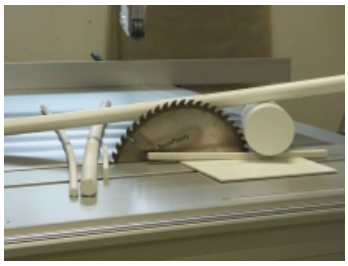
PTFE+25%Glass - teflon glass filled

Other material names PTFE+25%Glass: Murflor+glasfiber
Material group: Teflon



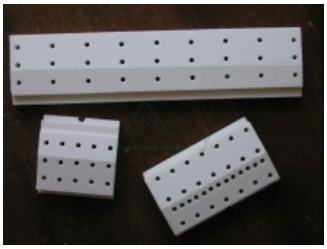
Glass filled PTFE is used to improve the creep resistance of PTFE over all temperature ranges, while still allowing some compression required for sealing in both gaskets and valves. Improved wear behavior is exhibited, while there is little effect on the electrical properties, as glass fiber is an insulator. Glass has an exceptional resistance to water. Glass must be avoided with the use of strong alkalis and hydrofluoric acid.

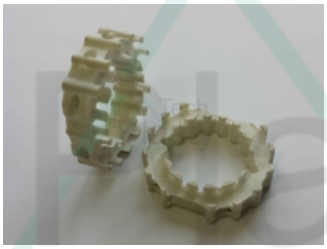
Color of material:

White

Typical applications:

- ideal for high load bearing applications, against high hardness surfaces.
- bearings and bearing pads
- piston rings,
- valve seats and valve plugs
- gaskets





The material is used in:

Electrotechnical industry
Automobile industry
Chemical industry
Engineering industry
Paper industry
Glass industry
Production of single-purpose machines

Features:

- Chemically inert to all known industrial chemicals;
- Low co-efficient of friction, non-stick & non-toxic;
- Wide temperature range
- Exhibits excellent permeation resistance;
- Excellent dielectric properties;

Material availability: Production only on request

Material properties table

Specific weight	2.24 g/cm³
Tensile strength	19 N/mm²
Allowable mean pressure deformation 1%	8.20 N/mm²
p.v dry limit	0.18 MPa.m/s

Flexural strength	4 N/mm²
Tensibility	250 %
Flexural modulus	1 320 N/mm²
Tensile modulus	1 500 N/mm²
Impact toughness	bez zlomu
Notched toughness	>12 kJ/m²
Ball hardness	65 N/mm²
Friction coefficient	0.13
Sliding wear	1.30 um/km
Antistatic material	No
Electrical strength	13 kV/mm
Specific internal resistance	10^(16) Ω
Specific surface resistance	10^(16) Ω.cm
Melting point	327 °C
Thermal expansion	12 10^(-5)/K
Thermal conductivity	0.90 W/(K.m)
Permanent use temperature	-200 ; 260 °C
Transient temperature of use	-200 ; 280 °C
Absorbability	0,01 %
Water absorption	0,01 %
Resistance - oils	resistant
Acid resistance	resistant
Durability - alcali	resistant
Food contact	No

Engineering plastics are supplied in the form of bars, plates, strips, tubes and sheets. From the semi-finished products the company TechPlasty has regularly in stock, we also supply blanks.

All standard and special materials are designed to meet your specific requirements. Their mechanical, thermal, and electrical properties and chemical resistance satisfy the most demanding requirements and this allows them to work even in the most difficult conditions. If you need advice when choosing the appropriate material for your application, please contact us. We'll gladly advise you. You can utilize the long-term experience of our technical advisors free-of- charge, who can visit you right in your operation and solve your requirements for engineering plastics directly at the site of their usage.

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