

Application purpose and characteristics

Suitable for contact with foodstuffs, especially for parts in drinking water systems and mechanical plumping device applications. High maximum service temperature and excellent resistance to low temperatures, exceptional resistance to chemicals and hydrolysis, good electrical insulation properties, exceptional dielectric properties. UV resistance, extremely non-adhesive surface.

Material name, short description	PTFE
Material name, based on technical standards	Polytetrafluorethylene
Density	2.16 g/cm ³
Color	white
Compound code	PTFE VG.00-01

Mechanical properties

Modulus of elasticity & tension 1	280 N/mm ² ASTM D 638
Tensile strength	28 N/mm ² ASTM D 638
Elongation at break	300 % ASTM D 638
Compressive strength 1	4.5 N/mm ² ASTM D 695
Hardness nominal value	59 Shore D ASTM D 2240
Friction coefficient (static)	0.09 ASTM D 3028 (2)
Friction coefficient (dynamic)	0.05 ASTM D 3028 (1)

Thermal attributes

Min. operating temperature	-200 °C
Max. operating temperature long term	260 °C
Coefficient of linear thermal expansion 1	16x10 ⁻⁵ ASTM E 831

Electrical attributes

Dielectric strength 1	35 kV/mm ASTM D 149
-----------------------	------------------------

In compliance with **RoHS** and **REACH** directives.

This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.