

PCTFE

Polychlorotrifluoroethylene

Properties	Norm	Value	Unit
Mechanical properties			
Hardness shore D	DIN 53 505	72 - 80	Sh. D.
Ball pressure hardness	DIN 53 456	65 - 70	N/mm ²
Tensile strenght (23°C)	DIN 53 455	32 - 40	N/mm ²
Elongation at break (23°C)	DIN 53 455	30 - 120	%min
Tensile modulus	DIN 53 457	1000 - 2000	N/mm ²
Coefficient of friction v-steel - dynamic	-	0,35	-
Physical properties			
Water absorption	DIN 53 495	0,00	%
Electrical properties			
Dielectric strenght	DIN 53 481	50 - 70	KV/mm
Thermal properties			
Coefficient of thermal expansions (20-100°C)	-	5	1/K.10-5
Thermal conductivity (23°C)	DIN 53 612	0,19	W/K.m
Maximum Continous operating temperature	-	170	°C
Minimum Continous operating temperature	-	-273	°C

Product Properties

- Excellent mechanical properties
- Very good resistance to creep
- High performance in cryogenic applications
- Excellent electrical-insulating properties
- Low friction behaviour
- High hardness
- Near-zero moisture absorption
- Extremely low permeability
- Excellent chemical resistance
- Good transparency

Disclaimer: Information contained in this data sheet is up-to-date and correct as at the date of issue. The given information is only informative and we cannot guarantee the accuracy nor can we take any accountability for the use of this information. The customer is responsible for the quality of products and has to test usage and processing to use. Some values are based on the datasheet of supplier, internal test and research. The values are guideline values that can be used for comparison for material selection.