

PCTFE rod



We supply PCTFE rod in various diameters and various lengths. Delivery on rolls (with production lengths) and straight lengths of 1000/2000/3000mm.

For applications requiring an exact diameter and roundness, we recommend grounded PCTFE rod. This PCTFE rod will be modified after extrusion so that the desired diameter and roundness are guaranteed.

Key properties of PCTFE

- Especially suitable for cryogenic applications
- Excellent resistance to creep
- Dimensionally stable over a wide temperature range
- Extremely low gas permeability
- FDA approval
- Transparent and coloured compounds
- Working temperature from -200°C to +150°C

	Property	Specification	Unit	Value
General	Continuous working temp.	Minimum - Maximum	°C	-200 up to +150
	Chemical resistance		-	Excellent
	Specific gravity	D 792	g/cm ³	2.1-2.16
Electrical	Dielectric constant	D 257	-	2.3
	Dielectric strength, 1,60mm thk	D 149	kV/mm	21
	Volume resistivity	D 257	Ohm-cm	>10 ¹⁸
Mechanical	Tensile strength	D 638	Mpa	31-45
	Elongation	D 638	%	50 - 150
	Impact strength	D 256 bij +23°C	J/m	≥75
	Tensile Modulus	D 638	Gpa	1-1,6
	Hardness	D 2240	-	70-80
	Deformation under load, 7MPa for 24h at 25°C	D 621	%	1
	Deformation under load, 7MPa for 24h at 70°C	D 621	%	2,5
	Deformation under load, 7MPa for 24h at 125°C	D 621	%	12
Thermal	Melting point	D 3418	°C	210-212
	Thermal conductivity	E 1530	W/mK	0.35
	Oxygen Index, LOI	D 2863	%	>95
	Flammability	UL94	-	V-0
	Specific heat capacity, at 23°C	DSC	kJ kg ⁻¹ °C ⁻¹	0,9

* Actual properties may change due to processing method, compound type, extruded dimensions and other variables. It is the user's responsibility to evaluate and fully test the suitability of the product for their specific application.

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Diameter \varnothing mm	Lengthe mm
6	1000
6	2000
6	3000
8	1000
8	2000
8	3000
10	1000
10	2000
10	3000
12	1000
12	2000
12	3000
15	1000
15	2000
15	3000
18	1000
18	2000
18	3000
20	1000
22	1000
25	1000
28	1000
30	1000
35	1000
40	1000
45	500

Above mentioned dimensions are our standard. Other sizes available on request.
Our rods are also available in PTFE, PFA, FEP, ETFE, PVDF, PEEK and Rulon®.