

PTFE rod



Our PTFE rod is available in various diameter and lengths of 1000/2000/3000mm or customer-specific cut lengths. Smaller diameters can be delivered on spool.

For applications requiring an exact diameter and roundness, we recommend grounded rod. This rod is processed after extrusion so desired diameter and roundness are guaranteed

Key properties of PTFE

- Excellent chemical resistance
- Working temperature -190°C to +260°C
- Greatest resistance to fatigue (Wöhler curve)
- FDA approved
- Flame resistant - UL94V0
- No stick
- Low friction
- UV-resistant (does not age)
- Not hygroscopic (water absorption < 0,01%)
- Very good dielectric insulation properties

Properties of PTFE can be improved by adding additives as carbon, graphite, glass etc.

	Property	Specification	Unit	Value
General	Continuous working temp.	Maximum	°C	260
	Chemical resistance		-	Excellent
	Specific gravity	D 792	g/cm ³	2.14-2.20
Electrical	Dielectric constant	D 150 at 10 ³ Hz	-	2.1
		D 150 at 10 ⁶ Hz	-	2.1
	Dielectric dissipation factor	D 150 at 10 ³ Hz	-	0.0002
		D 150 at 10 ⁶ Hz	-	0.0002
	Dielectric strength	D 149	kV/mm	48
	Volume resistivity	D 257	Ohm·cm	>10 ¹⁸
Mechanical	Tensile strength	D 1708, D 638	Mpa	25
	Elongation	D 1708, D 638	%	>260
	Compressive strength	D 695	Mpa	24
	Impact strength	D 256 bij +23°C	J/m	No break
	Flexural Modulus	D 790 bij +23°C	Mpa	620
	Tensile Modulus	D 638	Mpa	550
	Hardness	D 2240	-	55-72
Thermal	Melting (gel)point		°C	327
	Thermal conductivity	+23°C	W/Kg.m	0.25
	HDT	DIN 75	°C	
	method A			122
	method B			55

* 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	Length
Extruded rod	Ø 4 – 160 mm	tot 3000 mm
Moulded rod	Ø 30 – 770 mm	tot 300 mm
Isostatic moulded rod	On request	On request

Above mentioned diameters/lengths are our standard. Other sizes on request.
Besides PTFE we also deliver rod out of PFA, FEP, ETFE, PCTFE, PVDF, PEEK and Rulon.

Polyfluor