



PTFE Technical Datasheet

Properties	Test Method	Unit	Result
Specific gravity	ASTM D792	-	2,14 - 2,20
Tensile strength	ASTM D1457	MPa	20 - 35
Elongation at break	ASTM D1457	%	210 - 400
Compressive strength 1% deformation	ASTM D695	MPa	4,00 - 4,50
Deformation under load 14 N/mm ² for 24hrs	ASTM D621	%	10 - 15
Flexural strength 0,7 N/mm ²	ASTM D790	MPa	no break
Module of elasticity in tension	ASTM D 790	MPa	700
Impact strength (Izod) 57°C	ASTM D256	KJ/m ²	1,10
Impact strength (Izod) 23°C	ASTM D256	KJ/m ²	1,60
Impact strength (Izod) 77°C	ASTM D256	KJ/m ²	3,30
Hardness	ASTM D2240	(shoreD)	50 - 60
Friction coefficient - static	ASTM D3028	-	0,09
Friction coefficient - dynamic	ASTM D3028	-	0,05
PTFE - steel oil lubricated	-	-	0,02 - 0,06
Working temperature range	-	°C	-200 - +260
Coefficient of thermal expansion from 25 to 100°C	ASTM E831	10 ⁻⁵ C ⁻¹	16
Thermal conductivity	ASTM D2214	W/mK	0,20
Specific heat 0°C	-	J/g.K	0,96
Specific heat 50°C	-	J/g.K	1,05
Temperature of distortion 0,46 N/mm ²	ASTM D648	°C	130 - 140
Temperature of distortion 1,85 N/mm ²	ASTM D648	°C	50 - 60
Dielectric strength (short-time air thickness 0,5 mm)	ASTM D149	kV/mm	55
Dielectric constant	ASTM D150	-	2,10
Dissipation factor	ASTM D150	-	<0,0002



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Volume resistivity	ASTM D257	Ohm/cm	10-17
Surface resistivity	ASTM D257	Ohm	10-15
Arc-resistance	ASTM D495	sec	OK
Water absorption	ASTM D570	%	<0,01
Flammability accodind to UL94	-	-	VO

All the above information is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.

- AVAILABLE IN: Rods and sheets