

PTFE DATASHEET

Properties	Method	Unit	Typical values (from - to)
Specific gravity	ASTM D792		2,14 - 2,20
Tensile strength	ASTM D1457	N/mm2	20 - 35
Elongation at break	ASTM D1457	%	210 - 400
Compressive strength 1% deformation	ASTM D695	N/mm2	4,00 - 4,50
Deformation under load 14 N/mm2 for 24hrs	ASTM D621(1)	%	10 - 15
Flexural strength 0,7 N/mm2	ASTM D790	N/mm2	no break
Impact strength (Izod) 57°C	ASTM D256	J/cm	1.10
Impact strength (Izod) 23°C	ASTM D256	J/cm	1.60
Impact strength (Izod) 77°C	ASTM 0256	J/cm	3.30
	Rich Kunststoffen		
Hardness	ASTM D2240	(shoreD)	50 - 60
Friction coefficient - static	ASTM D3028 (2)		0,09
Friction coefficient - dynamic	ASTM D3028 (2)		0,05
PTFE - steel oil lubricated			0,02 - 0,06
Working temperature range		celcius C	-200 / +260
Increase in volume from room temperature to molten state (340°C)		%	27 - 28
Coefficient of thermal expansion from 25 to 100 C	ASTM E831	celcius C-1	16x 1-5
Thermal conductivity	ASTM D2214	W/mK	0.20
Specific heat 0 celcius C		KJ/kg.K	0.96
Specific heat 50 celcius C		KJ/kg.K	1.05
Temperature of distortion 0,46 N/mm2	ASTM D648	celcius C	130 - 140
Temperature of distortion 1 ,85 N/mm2	ASTM D648	celcius C	50 - 60
Dielectric strength (shorttime air thickness 0,5 mm)	ASTM D149	kV/mm	55
Dielectric constant	ASTM D150		2.10
Dissipation factor	ASTM D150		<0.0002
Volume resistivity	ASTM D257	Ohm/cm	10-17
Surface resistivity	ASTM D257	Ohm	10-15
Arc-resistance	ASTM D495	sec	OK (4)
Water absorption	ASTM D570	%	<0.01
Flammability ATB	ASTM D635	sec	<5.00
Flammability AEB	ASTM D635	mm	<5.00