



TECHNICAL DATA SHEET

PTFE Sheet, ROD and PIPE

Physical Properties	Value	Test Methos	Unit
Density	2.14-2.18	ASTM D792	g/cm ³
Hardness - Shore D	≥ 51	ASTM D2240	-
Tensile Strength - CD	≥24	ISO12086/ISO527	N/mm ²
Elongation at Break - CD	≥250	ISO12086/ISO527	%
Compression strength at 1% deformation- CD	4 - 5	ASTM D695	N/mm ²
Deformation under load at room temperature after 24 hours at 13,7 N/mm ² - CD	≤ 17	ASTM D621	%
Permanent deformation as above after 24 hours of rest at room temperature - CD	≤ 9	ASTM D621	%
Deformation under load at 260 °C after 24 hours at 41N/mm ² - CD	≤ 32	ASTM D621	%
Permanent deformation as above after 24 hours of rest at room temperature - CD	≤ 19	ASTM D621	%
Impact strength Izod	153	ASTM D256	J/m
Tribological Properties			
Dynamic coefficient of friction	0,06	ASTM D1894/ASTM	-
Wear factor K	2,90	ASTM D3702	
PV Limit:			
- at 3m/min	2,4	-	N/mm ² ·m/min
- at 30m/min	4,2	-	N/mm ² ·m/min
- at 300m/min	5,7	-	N/mm ² ·m/min
Thermal Properties			
Service Temperature (min-max)	- 200 to 260		°C
Thermal expansion coefficient (linera)25 - 100°C	12 - 13		10 ⁻⁵ (mm/mm)/ °C
Electrical Properties			
Dielectric strength (specimen 0,5mm thick)		ASTM D149	KV/mm
Dielectric Constant at 60Hz and 106Hz		ASTM D150	-
Volume Resistivity	10 ¹⁸	ASTM D257	Ω - cm
Surface Resistivity	10 ¹⁷	ASTM D257	Ω

Note - CD = Cross Direction

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