

TECHNICAL DATA SHEET

VIRGIN PTFE EXTRUDED

PHYSICAL - MECHANICAL

Properties	Unit	Method	Data-Extruded
Density	g/cm ³	ASTM D792	2,14 - 2,18
Hardness - Shore D	/	ASTM D2240	≥ 50
Tensile Strength - CD	N/mm ²	ISO 527 v = 50mm/min microtensile die	≥ 20
Elongation at break - CD	%	ISO 527 v = 50mm/min microtensile die	≥ 200
Compressive strength at 1% deformation - CD	N/mm ²	ASTM D695	4 - 5
Deformation under load at room temperature 24 Hours at 13,7 N/mm ² - CD	%	ASTM D621	≤ 17
Permanent deformation as above after releasing of 24 hours at room temperature - CD	%	ASTM D621	≤ 8

TRIBOLOGICAL

Properties	Unit	Method	Data-Extruded
Dynamic coefficient of friction	/	ASTM D3702	0,06

THERMAL

Properties	Unit	Method	Data-Extruded
Service Temperature (min - max)	°C	/	- 200 / + 260
Thermal expansion coefficient (linear) 25 - 100°C	10 ⁻⁵ (mm/mm)/ °C	Similar to ASTM D696	12 - 13

ELECTRICAL

Properties	Unit	Method	Data-Extruded
Dielectric strength (specimen 0,5 mm thick)	KV/mm	ASTM D149	≥ 20
Volume resistivity	Ω • cm	ASTM D257	10 ¹⁸
Surface resistivity	Ω	ASTM D257	10 ¹⁷

CD=Cross Direction