



Virgin PTFE Sheet , ROD & PIPE Technical Sheet

Physical Properties	Value	Test Method	Unit
Density	2.14 - 2.18	ASTM D792	g/cm3
Hardness - Shore D	≥ 51	ASTM D2240	-
Tensile Strength - CD	≥ 24	ISO 12086 / ISO 527	N/mm2
Elongation at Break - CD	≥ 250	ISO 12086 / ISO 527	%
Compression strength at 1% deformation - CD	4 - 5	ASTM D695	N/mm2
Deformation under load at room temperature after 24 hours at 13,7 N/mm2 - 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 41 N/mm2 - 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 D3702	-
Wear factor K	2.900	ASTM D3702	-
PV Limit:			
- at 3m/min	2.4	-	N/mm2 • m/min
- at 30m/min	4.2	-	N/mm2 • m/min
- at 300m/min	5.7	-	N/mm2 • m/min
Thermal Properties			
Service Temperature (min-max)	-200 to 260	-	°C
Thermal expansion coefficient (linear) 25 - 100°C	12 - 13	Similar to ASTM D696	10 ⁻⁵ (mm/mm)/ °C
Electrical Properties			
Dielectric strength (specimen 0,5 mm thick)	≥ 40	ASTM D149	KV/mm
Dielectric Constant at 60 Hz and 106 Hz	2.05 - 2.10	ASTM D150	-

