

Vital Polymers Virgin PTFE

Typical Properties

PROPERTY	Method	Units	Values
Specific Gravity	ASTM D 792	-	2.13 - 2.20
Tensile Strength	ASTM D 638	Mpa	20 - 35
Elongation at break	ASTM D 638	%	210 - 350
Hardness	ASTM D 2240	Shore D	50 - 60
Flexural Strength	ASTM D 790	N/mm ²	no break
Flexural Modulus	23° C	N/mm ²	600 - 700
Impact Strength 23° C	ASTM D 256	J/cm	1.65
Deformation under load	ASTM D 695	%	10 - 13
Permanent Deformation	ASTM D 695	%	6 - 7.5
Dielectric Constant	ASTM D 150	-	2.1
Dielectric Strength	ASTM D 149	kV/mm	20 - 70
Volume Resistivity	ASTM D 257	Ω/cm	10 ¹⁸
Melting Point		° C	327
Working Temp		° C	-200 to +260
Flammability Rating	UL 94		V0
Limiting Oxygen Index	ASTM D 2863	%	>95
Coefficient of Linear Thermal Expansion	ASTM D696	78-400 °F	4 - 9 x 10 ⁻⁵
	ASTM D831	25-100 °C	16 x 1 ⁻⁵

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