



Material: PVDF

Higher tensile strength, pressure resistance, dimensional stability than the related PTFE. PVDF has a high mechanical strength and toughness at lower temperature and is self-extinguishing. Low water absorption, high chemical resistance and UV resistance.

Technical Specification

Property	Test Method	Units	Value
Colour	-	-	Natural
Density	ISO 1183	g/cm ³	1.77
Water Absorption	DIN 53495	%	=0.04
Service Temp Upper	-	°c	150
Service Temp Lower	-	°c	-30
Tensile strength at yield	ISO 527	MPa	50
Elongation at yield	ISO 527	%	9
Tensile strength at break	ISO 527	MPa	46
Elongation at break	ISO 527	%	80
Impact Strength	ISO 179	kJ/m ²	124
Notched Impact Strength	ISO 179	kJ/m ²	11
Rockwell hardness	ISO 2039-1	MPa	80
Elastic modulus	ISO 527	MPa	2000
Vicat Softening temp VST/B/50	ISO 306	°c	140
Vicat Softening temp VST/A/50	ISO 306	°c	160
Heat Deflection temp HDT/B	ISO 75	°c	145
Heat Deflection temp HDT/A	ISO 75	°c	90
Linear thermal expansion coefficient	DIN 53752	K ⁻¹ x10 ⁻⁴	1.2
Thermal Conductivity at 20°c	DIN 52612	W/(Km)	0.13
Volume Resistivity	VDE 0303	Ohm/cm	>10 ¹³
Surface Resistance	VDE 0303	Ohm	>10 ¹²
Dielectric Constant @ 1MHZ	DIN 53483	-	7.25
Dielectric loss factor @ 1MHZ	DIN 53483	-	0.18
Dielectric Strength	VDE 303	kV/mm	22
Tracking Resistance	DIN 53480	-	KC300
Bondability	-	-	Limited
Physiology indifference	FDA	-	Yes
Friction Coefficient	DIN 53375	-	0.34
Flammability	UL94	-	V-O

Availability:

Available in a variety of sheets, blocks, and rods. Please call for further details.

Applications:

Pumps, rotation disks, valves, fittings, glide tracks, cogwheels, chemical processing industry.

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The data shown are typical values and are not intended to represent specifications. Their aim is to guide the user toward a material choice.

Not all material sizes shown within the availability programme of this data sheet are available as standard.

Please contact ABG Rubber and Plastics Ltd for further details.