



PVDF 1000x500x45 mm natural

Article No.	P1010712
Category	PVDF

Technical Properties

Density & Weight

Property	Value	Unit	Test standard
Density	1.78	g/cm ³	ISO1183

Moisture Absorption

Property	Value	Unit	Test standard
Water absorption to saturation	0.15	%	ISO62
Water Absorption to Saturation	0.35	%	ISO62

Tensile Properties

Property	Value	Unit	Test standard
Tensile Strength	40	MPa	ISO 527
Modulus of elasticity (tensile)	2200	MPa	ISO527-2
Breakdown Voltage	46	MPa	ISO 527
Break Elongation	17	%	ISO527-2

Flexural Properties

Property	Value	Unit	Test standard
Flexural Strength	62	MPa	ISO527-2

Impact Resistance

Property	Value	Unit	Test standard
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Property	Value	Unit	Test standard
Notched impact strength (Charpy)	8	kJ/m ²	ISO 179
Impact Resistance (Charpy)	150	kJ/m ²	ISO179/1eU

Hardness

Property	Value	Unit	Test standard
Hardness Shore D	80	° Shore D	ISO868
Ball pressure hardness	120	MPa	ISO 2039

Temperature Limits

Property	Value	Unit	Test standard
Melting point	171	°C	ISO11357
Maximal operating temperature (short-term)	142	°C	UL746B
Maximum Operating Temperature	130	°C	UL746B
Minimum temperature	-26	°C	
Heat deflection temperature (HDT/A)	104	°C	ISO 75
Heat deflection temperature (HDT/B)	145	°C	ISO 75
Vicat softening temperature (VST/B/50)	138	°C	ISO 306

Thermal Conductivity

Property	Value	Unit	Test standard
Thermal Conductivity	0.25	W/(m·K)	DIN22007-4

Thermal Expansion

Property	Value	Unit	Test standard
Thermal Expansion Coefficient	1.6	10 ⁻⁴ /K	ISO11359

Insulation Properties

Property	Value	Unit	Test standard
Dielectric Strength	27	kV/mm	IEC 60243-1
Volume Resistivity	10 ¹³	Ω·cm	IEC 60093
Dielectric Constant (1 MHz)	7.7	-	IEC 60250
Dielectric loss factor (1 MHz)	0.1	-	IEC 60250

Static spread

Property	Value	Unit	Test standard
Surface Resistivity	10 ¹⁴	Ω	IEC60093
Comparative Tracking Index (CTI)	600	V	IEC 60112