

Multiplast PVDF

Multiplast PVDF, is a Polyvinylideenfluoride offering excellent resistance to chemicals. They can be used at high and very low temperatures. Multiplast PVDF has:

- Good chemical resistance
- High degree of strength
- High degree of toughness
- UV resistance
- Low coefficient of friction

Properties	Units		
Modulus of elasticity (tensile test)	MPa	2200	
Tensile strength	MPa	62	
Tensile strength at yield	MPa	62	
Elongation at yield	%	8	
Elongation at break	%	17	
Modulus of elasticity (flexural test)	MPa	2100	
Flexural strength	MPa	77	
Compression modulus	MPa	1900	
Compressive strength (1% / 2%)	MPa	16 / 28	
Impact strength (Charpy)	kJ / m ²	150	
Notched impact strength (Charpy)	kJ / m ²	-	
Ball indentation hardness	MPa	129	
Glass transition temperature	°C	-40	
Melting temperature	°C	171	
Service temperature	short term	°C	150
	long term	°C	150
Thermal expansion	23 °C – 60 °C	10 ⁻⁵ K ⁻¹	16
	23 °C – 100 °C	10 ⁻⁵ K ⁻¹	18
Specific heat	J / (g x K)		1,3
Thermal conductivity	W / m K		0,25

Properties	Units	
Specific surface resistance	Ω	10^{14}
Specific volume resistance	$\Omega \times \text{cm}$	-
Dielectric strength	kV / mm	-
Resistance to tracking (CTI)	V	-
Water absorption 24 h / 96 h (@ 23°C)	%	<0,01 / <0,01
Resistance to hot water / bases	-	Good resistance
Resistance to weathering	-	Good resistance
Flammability	UL94	V0
Density	g/cm ³	1,78
Colour	-	White opaque

Availability:

Sheet:	Size:	500 x 3000 mm and 1000 x 2000 mm (smaller sizes are possible)
	Thickness:	10, 15, 20, 25, 30, 40, 50, 60 80 and 100 mm (500 x 3000 mm) 15, 20 and 30 mm (1000 x 2000 mm)
Rod:	Length:	3000 mm (shorter lengths are possible)
	Diameter	10 - 200 mm (in 3000 mm length) 250 mm (in 1000 mm length)