

# Technical data sheet

## Polystone® PVDF

### Product characteristics

- High temperature resistance
- Excellent chemical resistance
- Very good ageing resistance

### Product applications

- Clean room and semi conductor industry
- Chemical engineering and tank building

General Properties	tested method	unit	value
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	1,78
Water Absorption	DIN EN ISO 62	%	<0,4
Flammability (Thickness 3 mm / 6 mm)	UL 94	-	V0
Mechanical Properties	tested method	unit	value
Yield Stress	DIN EN ISO 527	MPa	55
Elongation at Break	DIN EN ISO 527	%	>30
Tensile modulus of elasticity	DIN EN ISO 527	MPa	2200
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	15
Shore hardness	DIN EN ISO 868	scale D	77
Thermal Properties	tested method	unit	value
Crystalline grain melting range	ISO 11357-3	°C	172 - 175
Thermal conductivity	DIN 52612-1	W / (m * K)	0,19
Thermal capacity	DIN 52612	kJ / (kg * K)	1,20
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> /K	100 - 140
Service temperature, long term	Average	°C	0 ... 140
Service temperature, short term (max.)	Average	°C	150
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	140
Electrical Properties	tested method	unit	value
Dielectric constant	IEC 60250	-	8,0
Dielectric dissipation factor (10 <sup>6</sup> Hz)	IEC 60250	-	0,02
Volume resistivity	IEC 60093	Ω *cm	>10 <sup>14</sup>
Surface resistivity	IEC 60093	Ω	<10 <sup>14</sup>
Comparative tracking index	IEC 60112	-	600
Dielectric strength	IEC 60243	kV / mm	20

The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.