

### Technical Data Sheet

# Polystone<sup>®</sup> PVDF SK natural

#### Typical characteristics

- Easy processing
- Good weldability
- Especially firm adhesion in the composite system and therefore especially suitable for container and plant construction
- Good resistance to acids
- Heat resistant
- Good heat ageing resistance

#### Typical industries

- Chemical Processing Industry
- Galvanic plants
- Chemical storage tanks
- Steel-pickling plants

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	>1,75
Water absorption	DIN EN ISO 62	%	<0,4
Flammability (Thickness 3 mm / 6 mm)	UL 94		V0
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	>50
Elongation at break	DIN EN ISO 527	%	>30
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>2100
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	>13
Shore hardness	DIN EN ISO 868	scale D	>75
<b>Thermal properties</b>			
Melting temperature	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	>145

	Test method	Unit	Guideline value
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	140
<b>Electrical properties</b>			
Dielectric constant	IEC 60250		8,0
Dielectric dissipation factor (10 <sup>6</sup> Hz)	IEC 60250		0,02
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10 <sup>14</sup>
Surface resistivity	DIN EN 62631-3-2	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.

