

Polystone® P Homopolymer natural

Product characteristics

- High rigidity
- Very good weldability
- High chemical and corrosion resistance

Product applications

- Chemical engineering and tank building
- Ventilation technology
- Pump engineering

	Test method	Unit	Guideline Value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	0,91
Water absorption	DIN EN ISO 62	%	<0,1
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Thermal properties			
Melting temperature	ISO 11357-3	°C	162 – 167
Thermal conductivity	DIN 52612-1	W / (m * K)	0,20
Thermal capacity	DIN 52612	kJ / (kg * K)	1,70
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	120 - 190
Service temperature, long term	Average	°C	0 ... 100
Service temperature, short term (max.)	Average	°C	150
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	90
Electrical properties			
Dielectric constant	IEC 60250		2,4
Dielectric dissipation factor (10 ⁶ Hz)	IEC 60250		0,00019
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10 ¹⁴
Surface resistivity	DIN EN 62631-3-2	Ω	>10 ¹⁴
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	45
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	32
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	1500
Notched impact strength	DIN EN ISO 179	kJ / m ²	5
Shore hardness	DIN EN ISO 868	scale D	72

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.