Technical Data Sheet

Polystone® P (Homopolymer) SK grey

Product characteristics

- Very good weldability
- High adhesion in a composite system
- Corrosion resistance
- Chemical resistance
- Heat resistant

Product industries

- Chemical Processing Industry
- Clean-Room Technology
- Drinking & Waste Water Technology
- Galvanic plants
- Exhaust-air cleaning plants
- Chemical storage tanks
- Ventilation plants
- Aquafarming

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm^3	>0,90
Water absorption	DIN EN ISO 62	%	<0,1
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	>30
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	>4
Shore hardness	DIN EN ISO 868	scale D	>70
Thermal properties			
Melting temperature	ISO 11357-3	°C	162 ... 165
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

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	Test method	Unit	Guideline value
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	Ohm * cm	$>10^{14}$
Surface resistivity	DIN EN 62631-3-2	Ohm	$>10^{14}$
Dielectric strength	IEC 60243	kV / mm	>40

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.

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