

### Technical Data Sheet

## Polystone<sup>®</sup> PPs (Homopolymer) white

#### Typical characteristics

- High stiffness
- Very good welding and processing properties
- Chemical resistance
- Flame retardant

#### Typical industries

- Chemical Processing Industry
- Clean-Room Technology
- Electronics
- Exhaust-air cleaning plants
- Ventilation plants
- Semiconductor Front-End applications
- Semiconductor Front-End Wet Bench

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	>0,93
Water absorption	DIN EN ISO 62	%	<0,1
Flammability (Thickness 3 mm / 6 mm)	UL 94		V2
<b>Mechanical properties</b>			
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	>1300
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	>4
Shore hardness	DIN EN ISO 868	scale D	>67
<b>Thermal properties</b>			
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 <sup>-6</sup> / 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	81

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Print: 28/04/2024 • Draft: 28/04/2024

PIM-Version: 426 • PIM-ID: 591195 • PIM-Code: 426-24-131.12.27.10-7.7.8.3.3.10.9-5

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	Test method	Unit	Guideline value
<b>Electrical properties</b>			
Dielectric constant	IEC 60250		2,4
Dielectric dissipation factor (10 <sup>6</sup> Hz)	IEC 60250		0,00019
Volume resistivity	DIN EN 62631-3-1	Ohm * cm	>10 <sup>14</sup>
Surface resistivity	DIN EN 62631-3-2	Ohm	>10 <sup>14</sup>
Dielectric strength	IEC 60243	kV / mm	>30

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.

