

## Technical Data Sheet

# Polystone® PPs (Homopolymer) white

PP-H

### Typical characteristics

- High stiffness
- Good weldability
- Easy processing
- Chemical resistant
- 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>			
Water Absorption (after 48 hrs)	ASTM D570	%	<0.10
Density	ASTM D792	g / cm <sup>3</sup>	0.91
<b>Mechanical properties</b>			
Shore hardness	DIN EN ISO 868	scale D	>67
Hardness	ASTM D2240	Shore D	72
Tensile Strength at yield 73°F	ASTM D638	psi	4700
Izod Impact, Notched	ASTM D256	ft-lb/in	1
Coefficient of Friction, Dynamic			0.25-0.28
<b>Thermal properties</b>			
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 <sup>-5</sup>	6
Melting Point		°F	323
Maximum Service Temperature, Air		°F	180
Heat Deflection Temperature 264psi	ASTM D648	°F	210
Flammability, UL94		1/8 inch	HB
<b>Electrical properties</b>			
Dielectric constant	ASTM D150	1MHz	2.4
Dielectric strength	ASTM D149	kV / mm	45

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	Test method	Unit	Guideline value
Surface resistivity	ASTM D257	$\Omega/\text{cm}$	$>10^{14}$
<b>Compliance properties</b>			
FDA			Yes
NSF			No
USDA			Yes

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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