

Technical Data Sheet



Polystone® G HG white pressed

PE-HD / PE 300

Typical characteristics

- Good machinability
- Good mechanical properties
- ISO 10993-5 tested on semi-finished product
- Good weldability
- Chemical resistant

Typical industries

- Healthcare

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	>0,95
Water absorption	DIN EN ISO 62	%	<0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	>22
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>1000
Notched impact strength	DIN EN ISO 179	kJ / m ²	>13
Shore hardness	DIN EN ISO 868	scale D	>61
Thermal properties			
Melting temperature	ISO 11357-3	°C	130 ... 135
Thermal conductivity	DIN 52612-1	W / (m * K)	0,40
Thermal conductivity	DIN EN ISO 8302	W / (m * K)	1,90
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	150 ... 230
Service temperature, long term	Average	°C	-50 ... 80
Service temperature, short term (max.)	Average	°C	100
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	67
Electrical properties			
Dielectric constant	IEC 60250		2,4

ri-inquiry@roechling.com • www.roechling.com/industrial/materials

Print: 12/12/2025 • Release: 11/04/2025 • Version: 1.0
PIM-Version: 334 • PIM-ID: 774813 • PIM-Code: 334-31-70.17.19.16.33-27-5
Company-IDs: 20000-1

Page 1 / 2 (Dates in DD/MM/YYYY)



	Test method	Unit	Guideline value
Dielectric dissipation factor (10 ⁶ Hz)	IEC 60250		0,0004
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	>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.

