

## Technical Data Sheet

# Polystone<sup>®</sup> G EL black extruded

PE-HD / PE 300

### Typical characteristics

- Good weldability
- Easy processing
- Chemical resistant
- Good mechanical properties

### Typical industries

- Chemical Processing Industry

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	>0,98
Water absorption	DIN EN ISO 62	%	<0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Flammability (Thickness 3 - 10 mm)	DIN 4102		B2
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	>22
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>1100
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	>5
Shore hardness	DIN EN ISO 868	scale D	>65
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	130 ... 135
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> / 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
Thermal conductivity	DIN EN ISO 22007-2	W / (m * K)	0,40
Thermal capacity	DIN EN ISO 11357-4	kJ / (kg * K)	1,90
<b>Electrical properties</b>			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	<10 <sup>5</sup>
Surface resistivity	DIN EN 62631-3-2	Ω	<10 <sup>5</sup>

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.

[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)





[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)

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