

### Technical Data Sheet

# Polystone® G B 100 black extruded

#### Typical characteristics

- Chemical resistance
- Suitable for contact with drinking water

#### Typical industries

- Chemical Processing Industry
- Chemical storage tanks

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	>0,96
Water absorption	DIN EN ISO 62	%	<0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	>23
Elongation at break	DIN EN ISO 527	%	>50
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>1100
Notched impact strength	DIN EN ISO 179	kJ / m <sup>2</sup>	>16
Shore hardness	DIN EN ISO 868	scale D	63
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	130 ... 135
Thermal conductivity	DIN 52612-1	W / (m * K)	0,40
Thermal capacity	DIN 52612	kJ / (kg * K)	1,90
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
<b>Electrical properties</b>			
Dielectric constant	IEC 60250		2,5
Dielectric dissipation factor (10 <sup>6</sup> Hz)	IEC 60250		0,0004
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>

#### Röchling Industrial SE & Co. KG

Röchlingstr. 1 • 49733 Haren (Ems)/Germany (DE) • Tel. +49 5934 701-0  
 info@roechling-plastics.com • www.roechling.com/industrial/haren

Print: 02/05/2024 • Release: 27/10/2023 • Version: 2.0  
 PIM-Version: 532 • PIM-ID: 590982 • PIM-Code: 532-27-27.11-7.6-4



	Test method	Unit	Guideline value
Comparative tracking index	IEC 60112		600
Dielectric strength	IEC 60243	kV / mm	45

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. (\*) literature values



#### Röchling Industrial SE & Co. KG

Röchlingstr. 1 • 49733 Haren (Ems)/Germany (DE) • Tel. +49 5934 701-0  
info@roechling-plastics.com • www.roechling.com/industrial/haren

Print: 02/05/2024 • Release: 27/10/2023 • Version: 2.0  
PIM-Version: 532 • PIM-ID: 590982 • PIM-Code: 532-27-27.11-7.6-4

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

