

### Technical Data Sheet

# Polystone® G B 100 RC + UV-stabilized white

PE-HD (PE 100)

#### Typical characteristics

- Muy buena resistencia al agrietamiento por tensión.
- Resistencia química
- estabilizado a los rayos UV

#### Typical industries

- Construcción de contenedores químicos
- Tanques de almacenamiento

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	>0,95
Water absorption	DIN EN ISO 62	%	0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
MRS classification	ISO TR 9080		PE 100
Approval			DIBt
Melt Flow Rate (MFR 190/5)	DIN EN ISO 1133	g / 10 min	0,22
Moulding Compound PE	ISO 17855		PE,,EACH,57-T003
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	>20
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 <sup>2</sup>	>16
Shore hardness	DIN EN ISO 868	scale D	63
FNCT (4.0 MPa, 2 % Arkopal N 100, 80 °C)	ISO 16770	h	>8760
<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

Röchling Industrial SE & Co. KG

Röchlingstr. 1 • 49733 Haren (Ems)/DE • Tel. +49 5934 701-0

info@roechling-plastics.com • www.roechling.com/industrial/haren

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

Print: 11/04/2026 • Release: 07/04/2026 • Version: 1.0

PIM-Version: 55 • PIM-ID: 776010 • PIM-Code: 55-34-22.33.9-7.7-5

Company-IDs: 20000-1

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



	Test method	Unit	Guideline value
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	Ω * cm	>10 <sup>14</sup>
Surface resistivity	DIN EN 62631-3-2	Ω	>10 <sup>14</sup>
Comparative tracking index	IEC 60112		600
Arc resistance	IEC 60093	degree	L4 (*)
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.



Röchling Industrial SE & Co. KG  
 Röchlingstr. 1 • 49733 Haren (Ems)/DE • Tel. +49 5934 701-0  
 info@roechling-plastics.com • www.roechling.com/industrial/haren

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

Print: 11/04/2026 • Release: 07/04/2026 • Version: 1.0  
 PIM-Version: 55 • PIM-ID: 776010 • PIM-Code: 55-34-22.33.9-7.7-5  
 Company-IDs: 20000-1

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

