

## Technical Data Sheet

### Polystone® G B 100 RC black

#### Product characteristics

- Very good stress cracking resistance
- Good chemical resistance
- Suitable for contact with drinking water

#### Product applications

- Chemical engineering and tank building
- Drinking water and sewage water technology

	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
Non-toxicity			+
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	DIN ISO 1872-1		PE-EACH-50T003
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	24
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>	20
Shore hardness	DIN EN ISO 868	scale D	62
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)	0,43
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	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. (\*) literature values