

Technical Data Sheet

Polystone® G HD black

Product characteristics

- Very good welding and processing properties
- Good chemical resistance
- Good mechanical properties

Product applications

- Chemical engineering and tank building
- Mechanical engineering

	Test method	Unit	Value
Propriétés générales			
Density	DIN EN ISO 1183-1	g / cm ³	>0,95
Water absorption	DIN EN ISO 62	%	<0,01
Inflammabilité (Épaisseur 3 mm / 6 mm)	UL 94		HB
Flammability (Thickness 3 - 10 mm)	DIN 4102		B2
Propriétés mécaniques			
Limite d'élasticité	DIN EN ISO 527	MPa	>22
Élongation	DIN EN ISO 527	%	>50
Module d'élasticité	DIN EN ISO 527	MPa	>1000
Notched impact strength	DIN EN ISO 179	kJ / m ²	>10
Shore hardness	DIN EN ISO 868	scale D	>60
Propriétés thermiques			
Température de fusion	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 de dilatation thermique linéaire	DIN 53752	10 ⁻⁶ / K	150 ... 230
Température de service, à long terme	Average	°C	-50 ... 80
Température de service, court terme (max.)	Average	°C	100
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	67
Propriétés électriques			
Dielectric constant	IEC 60250		2,4
Dielectric dissipation factor (10 ⁶ Hz)	IEC 60250		0,0004
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10 ¹⁴
Résistivité de surface	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.