Röchling

Industrial

Technical Data Sheet

Polystone® P homopolymer black

Product characteristics

- High rigidity
- Very good weldability
- High chemical and corrosion resistance

Product applications

- Chemical engineering and tank building
- Ventilation technology
- Pump engineering

	Test method	Unit	Value
Propriétés générales			
Density	DIN EN ISO 1183-1	g / cm^3	>0,90
Water absorption	DIN EN ISO 62	%	<0,1
Inflammabilité (Épaisseur 3 mm / 6 mm)	UL 94		HB
Propriétés mécaniques			
Limite d'élasticité	DIN EN ISO 527	MPa	>30
Élongation	DIN EN ISO 527	%	>50
Module d'élasticité	DIN EN ISO 527	MPa	>1500
Notched impact strength	DIN EN ISO 179	kJ / m^2	>4
Shore hardness	DIN EN ISO 868	scale D	>70
Propriétés thermiques			
Température de fusion	ISO 11357-3	°C	162 ... 167
Thermal conductivity	DIN 52612-1	W / (m * K)	0,20
Thermal capacity	DIN 52612	kJ / (kg * K)	1,70
Coefficient de dilatation thermique linéaire	DIN 53752	10^{-6} / K	120 ... 190
Température de service, à long terme	Average	°C	0 ... 100
Température de service, court terme (max.)	Average	°C	150
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	90
Propriétés électriques			
Dielectric constant	IEC 60250		2,4
Dielectric dissipation factor (10^6 Hz)	IEC 60250		0,00019
Volume resistivity	DIN EN 62631-3-1	Ω * cm	$>10^{14}$
Résistivité de surface	DIN EN 62631-3-2	Ω	$>10^{14}$
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.

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INTEGRATED MANAGEMENT SYSTEM