

Technical Data Sheet

Polystone® M black EL

Product characteristics

- Very good electrical conductivity
- High abrasion and wear resistance

Product applications

- Mechanical engineering
- Packaging industry

	Test method	Unit	Guideline Value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	0,97
Water absorption	DIN EN ISO 62	%	<0,05
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	20
Elongation at break	DIN EN ISO 527	%	>200
Tensile modulus of elasticity	DIN EN ISO 527	MPa	700
Notched impact strength	DIN EN ISO 179	kJ / m ²	no break
Shore hardness	DIN EN ISO 868	scale D	63
Wear resistance	Sand-slurry		90
Thermal properties			
Melting temperature	ISO 11357-3	°C	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 ⁻⁶ / K	150 - 230
Service temperature, long term	Average	°C	-250 ... 80
Service temperature, short term (max.)	Average	°C	130
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	79
Electrical properties			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	10 ³
Surface resistivity	DIN EN 62631-3-2	Ω	10 ⁴

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.