

## Technical Data Sheet

### Polystone<sup>®</sup> MR black AST

#### Product characteristics

- Antistatic
- Good wear resistance
- Good sliding properties

#### Product applications

- Materials handling industry
- Mechanical engineering

	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
Molecular weight	-	10 <sup>6</sup> g/mol	~ 9
<b>Mechanical properties</b>			
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 <sup>2</sup>	no break
Shore hardness	DIN EN ISO 868	scale D	63
<b>Thermal properties</b>			
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 <sup>-6</sup> / K	150 - 230
Service temperature, long term	Average	°C	-100 ... 80
Service temperature, short term (max.)	Average	°C	130
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	79
<b>Electrical properties</b>			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	<10 <sup>9</sup>
Surface resistivity	DIN EN 62631-3-2	Ω	<10 <sup>9</sup>

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.