

### Technical Data Sheet

## Polystone<sup>®</sup> RGM black

PE-HD / PE 500

#### Typical characteristics

- Good mechanical properties

#### Typical industries

- Mechanical Engineering Industry

	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
Melt Flow Rate (MFR 190/5)	DIN EN ISO 1133	g / 10 min	Kein fließen
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	24
Elongation at break	DIN EN ISO 527	%	>250
Tensile modulus of elasticity	DIN EN ISO 527	MPa	1100
Notched impact strength	DIN EN ISO 11542-2	kJ / m <sup>2</sup>	40
Shore hardness	DIN EN ISO 868	scale D	63
<b>Thermal properties</b>			
Melting temperature	ISO 11357-3	°C	130 ... 135
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	80
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	79

