

### Technical Data Sheet

# Polystone<sup>®</sup> D AST black

PE-HD / PE 500

#### Typical characteristics

- Buenas propiedades de deslizamiento
- Buenas propiedades mecánicas
- Buena resistencia al desgaste
- Anti estático

#### Typical industries

- Construcción de máquinas e instalaciones
- Sector eléctrico

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	>0,96
Water absorption	DIN EN ISO 62	%	<0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	>26
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>1200
Shore hardness	DIN EN ISO 868	scale D	65
<b>Thermal properties</b>			
Melting temperature	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 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
<b>Electrical properties</b>			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	10 <sup>9</sup> ... 10 <sup>11</sup>
Surface resistivity	DIN EN 62631-3-2	Ω	10 <sup>9</sup> ... 10 <sup>11</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.

[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)





[ri-inquiry@roechling.com](mailto:ri-inquiry@roechling.com) • [www.roechling.com/industrial/materials](http://www.roechling.com/industrial/materials)

Print: 24/06/2026 • Release: 09/06/2026 • Version: 1.0  
PIM-ID: 591154 • PIM-Code: 1115-8-223.17.143.16-5.11-5  
Company-IDs: 20000-1

Page 2 / 2 (Dates in DD/MM/YYYY)

