

Technical Data Sheet

Polystone® G HD + FR (UL 94-V2) black

PE-HD / PE 300

Typical characteristics

- Good weldability
- Easy processing
- Chemical resistant
- Good mechanical properties
- Flame retardant

Typical industries

- Chemical Processing Industry
- Mechanical Engineering Industry
- Electrical Industry

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	>1,4
Flammability (Thickness 3 mm / 6 mm)	UL 94		V2
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	>20
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>1400
Notched impact strength	DIN EN ISO 179	kJ / m ²	>4
Shore hardness	DIN EN ISO 868	scale D	>65
Thermal properties			
Melting temperature	ISO 11357-3	°C	130 ... 135
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	150 ... 230
Service temperature, long term	Average	°C	-50 ... 80
Service temperature, short term (max.)	Average	°C	100
Vicat softening temperature	DIN EN ISO 306, Vicat B	°C	67
Thermal conductivity	DIN EN ISO 22007-2	W / (m * K)	0,40
Thermal capacity	DIN EN ISO 11357-4	kJ / (kg * K)	1,90
Electrical properties			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	<10 ¹⁴
Surface resistivity	DIN EN 62631-3-2	Ω	<10 ¹⁴

