

Technical Data Sheet



Polystone[®] P HG EHS black

PP-H

Typical characteristics

- Good sterilisation resistance
- High rigidity
- ISO 10993-5 tested on semi-finished product
- Corrosion resistant
- Chemical resistant

Typical industries

- Healthcare

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	>0,91
Water absorption	DIN EN ISO 62	%	<0,10
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / HB
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	>30
Tensile modulus of elasticity	DIN EN ISO 527	MPa	>1800
Notched impact strength	DIN EN ISO 179	kJ / m ²	>4
Shore hardness	DIN EN ISO 868	scale D	>70
Thermal properties			
Melting temperature	ISO 11357-3	°C	162 ... 167
Thermal conductivity	DIN 52612-1	W / (m * K)	0,20
Thermal capacity	DIN 52612	kJ / (kg * K)	1,70
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ / K	120 ... 190
Heat deflection temperature	DIN EN ISO 75, Verf. A, HDT	°C	90
Autoclaving temperature resistance	Average	°C	0 ... 135
Electrical properties			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10 ¹⁴
Surface resistivity	DIN EN 62631-3-2	Ω	>10 ¹⁴
Dielectric strength	IEC 60243	kV / mm	>40

