

Technical Data Sheet



Polystone® P HG EHS grey extruded

PP-H

Typical characteristics

- Muy buena resistencia a la esterilización.
- Alta rigidez
- ISO 10993-5 probada en producto semiacabado
- Resistencia a la corrosión
- Resistencia química

Typical industries

- Healthcare

	Test method	Unit	Guideline value
General properties			
Density	DIN EN ISO 1183-1	g / cm ³	0,92
Mechanical properties			
Yield stress	DIN EN ISO 527	MPa	35
Elongation at break	DIN EN ISO 527	%	35
Tensile modulus of elasticity	DIN EN ISO 527	MPa	2100
Notched impact strength	DIN EN ISO 179	kJ / m ²	4,5
Ball indentation hardness	DIN EN ISO 2039-1	MPa	110
Thermal properties			
Melting temperature	ISO 11357-3	°C	168

The short-term maximum application temperature only applies to very low mechanical stress for a few hours. The long-term maximum application temperature is based on the thermal ageing of plastics by oxidation, resulting in a decrease of the mechanical properties. This applies to an exposure to temperatures for at least 5.000 hours causing a 50% loss of the tensile strength from the original value (measured at room temperature). This value says nothing about the mechanical strength of the material at high application temperatures. In case of thick-walled parts, only the surface layer is affected by oxidation from high temperatures. With the addition of antioxidants, a better protection of the surface layer is achieved. In any case, the center area of the material remains unaffected. The minimum application temperature is basically influenced by possible stress factors like impact and/or shock under application. The values stated refer to a minimum degree of impact stress. The electrical properties as stated result from measurements on natural, dry material. With other colours (in particular black) or saturated material, there may be clear differences in the electrical properties. The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. They serve as information about our products and are presented as a guide to choose from our range of materials. This, however, does not include an assurance of specific properties or the suitability for particular application purposes that are legally binding. Since the properties also depend on the dimension of the semi-finished products and the degree of crystallization (e.g. nucleating by pigments), the actual values of the properties of a particular product may differ from the indicated values.

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