

Technical data sheet

Polystone® P MG (Medical Grade Polypropylene - Homopolymer)

Product characteristics

- Good processing properties
- High chemical & corrosion resistance
- High strength & heat resistance

Typical field of application

- Medical engineering

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	0.91
Water Absorption	D570	%	≤0.1
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	72
Tensile Strength at yield 73 °F	D638	psi	4700
Elongation at Break	D638	%	≥400
Flexural Strength	D790	psi	180,000
Izod Impact, Notched	D256	ft-lb/in	1
Coefficient of Friction, Dynamic	-	-	0.25-0.28
Thermal Properties	tested method	unit	value
CTE, linear	D696	In/in/°F	6x10 ⁻⁵
Melting Point	D1525	°F	323
Maximum Service Temperature, Air	-	°F	180
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	210
Flammability, UL94	-	1/8 inch	HB
Electrical Properties	tested method	unit	value
Surface resistivity	D257	Ohm/cm	≥10 ¹⁴
Compliance Properties	tested method	unit	value
FDA	-	-	Yes
ISO 10993-5	Certified	-	Yes
UPS Class VI	Compliant	-	Yes
Color: White, Black			

The data stated above are average values ascertained by statistical tests on a regular basis. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.