

Technical data sheet

SUSTAPEEK MG (Medical grade polyether ether ketone)

Product characteristics

- Very high purity & good sterilization resistance
- High chemical resistance & high strength and rigidity
- Stable in temperatures up to 250° C in continuous operation

Typical field of application

- Medical engineering
- Pharmaceutical industry

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	1.32
Water Absorption 24 hours	D570	%	0.1
Water Absorption Saturation	D570	%	0.5
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	D85
Rockwell Hardness	D785	M	M105
Rockwell Hardness	D785	R	R126
Tensile Strength at yield 73 °F	D638	psi	16,000
Tensile Modulus	D638	psi	500,000
Elongation at Break	D638	%	20
Flexural Strength	D790	psi	25,000
Flexural Modulus	D790	psi	600,000
Izod Impact, Notched	D256	ft-lb/in	1.2
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	2.6x10 ⁻⁵
Melting Point	D3418	°F	630
Continuous Use	-	°F	480
Thermal Conductivity	-	in/hr/ft ² /F°	1.73
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	360
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	320
Electrical Properties	tested method	unit	value
Surface resistivity	D257	Ohm/cm	>10 ¹³
Compliance Properties	tested method	unit	value
FDA	-	-	Yes
ASTM	D6262	-	Yes
ISO 10993-5	Certified	-	Yes
Colors: Natural (tan), Black, Blue, Brown, Yellow & Green			

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.