

## Technical Data Sheet

# SustaPEEK MG - ASTM

PEEK

### Typical industries

- Healthcare
- Pharma

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	1.32
Water Absorption 24 hours	ASTM D570	%	0.1
Water Absorption Saturation	ASTM D570	%	0.5
<b>Mechanical properties</b>			
Hardness	ASTM D2240	Shore D	85
Tensile Strength at yield 73°F	ASTM D638	psi	16000
Tensile Modulus	ASTM D638	psi	500000
Elongation at Break	ASTM D638	%	20
Flexural Strength	ASTM D790	psi	25000
Flexural Modulus	ASTM D790	psi	600000
Rockwell Hardness	ASTM D785		105
Rockwell Hardness	ASTM D785	R	126
Izod Impact, Notched	ASTM D256	ft-lb/in	1.2
<b>Thermal properties</b>			
Thermal Conductivity		in/hr/ft <sup>2</sup> /°F	1.73
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 <sup>-5</sup>	2.6
Melting Point	ASTM D789	°F	630
Continuous Service Temperature, Air		°F	480
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	320
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	360
<b>Electrical properties</b>			
Surface resistivity	ASTM D257	Ω/cm	>10 <sup>13</sup>
<b>Compliance properties</b>			

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	Test method	Unit	Guideline value
FDA			Yes
NSF			No
USDA			Yes

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.



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