

Technical Data Sheet

SustaPEEK MG - ASTM

PEEK

Typical industries

- Healthcare
- Pharma

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	1.32
Water Absorption 24 hours	ASTM D570	%	0.1
Water Absorption Saturation	ASTM D570	%	0.5
Mechanical properties			
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
Thermal properties			
Thermal Conductivity		in/hr/ft ² /°F	1.73
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	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
Electrical properties			
Surface resistivity	ASTM D257	Ω/cm	>10 ¹³
Compliance properties			

ri-inquiry@roechling.com • www.roechling.com/industrial/materials

Print: 19/06/2026 • Release: 26/12/2024 • Version: 1.0
 PIM-ID: 717961 • PIM-Code: 39-16-27.9-2
 Company-IDs: 23070

Page 1 / 2 (Dates in DD/MM/YYYY)



	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.



ri-inquiry@roechling.com • www.roechling.com/industrial/materials

Print: 19/06/2026 • Release: 26/12/2024 • Version: 1.0
PIM-ID: 717961 • PIM-Code: 39-16-27.9-2
Company-IDs: 23070

Page 2 / 2 (Dates in DD/MM/YYYY)

