

### Technical Data Sheet

## SustaPEI MG (ULTEM™ HU1000) - ASTM

#### Typical industries

- Healthcare
- 제약

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	1.27
Water Absorption 24 hours	ASTM D570	%	0.25
Water Absorption Saturation	ASTM D570	%	1.25
<b>Mechanical properties</b>			
Hardness	ASTM D2240	Shore D	86
Tensile Strength at yield 73°F	ASTM D638	psi	16700
Tensile Modulus	ASTM D638	psi	480000
Elongation at Break	ASTM D638	%	80
Flexural Strength	ASTM D790	psi	20000
Flexural Modulus	ASTM D790	psi	500000
Rockwell Hardness	ASTM D785		114
Rockwell Hardness	ASTM D785	R	123
Izod Impact, Notched	ASTM D256	ft-lb/in	0.6
Coefficient of Friction, Dynamic			0.2
<b>Thermal properties</b>			
Thermal Conductivity		in/hr/ft <sup>2</sup> /°F	1
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 <sup>-5</sup>	3.1
Melting Point	ASTM D789	°F	460
Continuous Service Temperature, Air		°F	340
Deflection Temperature at 1.8Mpa (264psi)	ASTM D648	°F	395
Deflection Temperature at 1.8Mpa (66psi)	ASTM D648	°F	405
<b>Electrical properties</b>			

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Print: 27/07/2024 • Release: 08/04/2024 • Version: 1.0  
 PIM-Version: 29 • PIM-ID: 717963 • PIM-Code: 29-14-9.9-2



	Test method	Unit	Guideline value
Dielectric constant	ASTM D150	1MHz	3.2
Dielectric strength	ASTM D149	V/mil	830
Surface resistivity	ASTM D257	$\Omega/cm$	$10^{16}$
<b>Compliance properties</b>			
FDA	ASTM 210 CER117.1595		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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