

Technical Data Sheet

Sustamid[®] 66 natural - ASTM

PA 66

Typical characteristics

- Good dimensional stability
- Good sliding properties
- High abrasion resistance

Typical industries

- Agriculture Industry
- Electronics
- Food Industry
- Mechanical Engineering Industry

	Test method	Unit	Guideline value
General properties			
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / V2
Density	ASTM D792	g / cm ³	1.14
Water Absorption 24 hours	ASTM D570	%	1
Dissipation Factor	ASTM D150	1MHz	0.02
Water Absorption Saturation	ASTM D570	%	8.5
Mechanical properties			
Hardness	ASTM D785	Shore D	80
Tensile Strength at yield 73°F	ASTM D638	psi	12000
Tensile Modulus	ASTM D638	psi	400000
Elongation at Break	ASTM D638	%	40
Flexural Strength	ASTM D790	psi	15000
Flexural Modulus	ASTM D790	psi	420000
Compressive Strength	ASTM D695	psi	12500
Rockwell Hardness	ASTM D785		85
Rockwell Hardness	ASTM D785	R	121
Shear Strength	ASTM D732	psi	10000
Izod Impact, Notched	ASTM D256	ft-lb/in	0.6
Coefficient of Friction, Dynamic			0.25
Thermal properties			
Thermal Conductivity		in/hr/ft ² /°F	1.7

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	Test method	Unit	Guideline value
CTE, linear	ASTM D696	1/K	4.5x10 ⁵
Melting Point	ASTM D3418	°F	500
Continuous Use		°F	220
Deflection Temperature at 264psi	ASTM D648	°F	195
Deflection Temperature at 66psi	ASTM D648	°F	390
Electrical properties			
Dielectric constant	ASTM D150	1MHz	3.8
Dielectric strength	ASTM D149	V/mil	350
Surface resistivity	ASTM D257	Ω/cm	≥10 ¹³
Compliance properties			
FDA			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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