

Technical Data Sheet

Sustamid[®] 66 MO (Extruded Nylon MoS2 Filled) -

ASTM

PA 66

Typical characteristics

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

Typical industries

- Aerospace
- Electrical Industry
- Mechanical Engineering Industry

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm ³	1.15
Water Absorption	ASTM D570	%	8.5
Water Absorption 24 hours	ASTM D570	%	1.0
Dissipation Factor	ASTM D150	1MHz	0.02
Mechanical properties			
Tensile Strength at Yield	ASTM D638	psi	12000
Hardness	ASTM D2240	Shore D	85
Tensile Elongation	ASTM D638	%	25
Flexural Strength	ASTM D790	psi	17000
Flexural Modulus	ASTM D790	psi	460000
Compressive Strength	ASTM D695	psi	16000
Rockwell Hardness	ASTM D785	M	85
Rockwell Hardness	ASTM D785	R	115
Shear Strength	ASTM D732	psi	10500
Izod Impact, Notched	ASTM D256	ft-lb/in	0.6
Coefficient of Friction, Dynamic			0.23
Thermal properties			
Thermal Conductivity		in/hr/ft ² /°F	1.7
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 ⁻⁵	4.0

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	Test method	Unit	Guideline value
Melting Point	ASTM D789	°F	495
Continuous Service Temperature, Air		°F	220
Flammability, UL94		1/8 inch	HB
Deflection Temperature at 264psi	ASTM D648	°F	195
Deflection Temperature at 66psi	ASTM D648	°F	470
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			No
NSF			No
USDA			No

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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