

Technical Data Sheet

SUSTAMID® 66 - ASTM

[PA 66 / Extruded Nylon]

Product characteristics

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

Product applications

- Mechanical engineering
- Aircraft construction
- Electrical industry

	Test method	Unit	Guideline Value
General properties			
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	12.000
Tensile Modulus	ASTM D638	psi	400.000
Elongation at Break	ASTM D638	%	40
Flexural Strength	ASTM D790	psi	15.000
Flexural Modulus	ASTM D790	psi	420.000
Compressive Strength	ASTM D695	psi	12.500
Rockwell Hardness	ASTM D785	M	85
Rockwell Hardness	ASTM D785	R	121
Shear Strength	ASTM D732	psi	10.000
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
CTE, linear	ASTM D696	1/K	4,5x10 ⁵
Melting Point	ASTM D3418	°F	500
Continuous Use		°F	220
Flammability, UL94		1/8 inch	HB
Deflection Temperature at 264psi	ASTM D648	°F	195
Deflection Temperature at 66psi	ASTM D648	°F	390
Electrical properties			
Dielectric constant	ASTM D150	1 MHz	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.

