

Technical data sheet

SUSTAMID® 66 (Extruded Nylon)

Product characteristics

- Good dimensional stability
- Very good sliding properties & high abrasion resistance
- Exceptional tensile strength & hardness over broad temps

Typical field of application

- Mechanical engineering & aircraft construction
- Electrical industry
- Automotive industry & apparatus construction

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	1.14
Water Absorption 24 hours	D570	%	1.0
Water Absorption Saturation	D570	%	8.5
Dissipation Factor	D150	1 MHz	0.02
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	D80
Rockwell Hardness	D785	M	M85
Rockwell Hardness	D785	R	R121
Tensile Strength at yield 73 °F	D638	psi	12,000
Tensile Modulus	D638	psi	400,000
Elongation at Break	D638	%	40
Flexural Strength	D790	psi	15,000
Flexural Modulus	D790	psi	420,000
Compressive Strength	D695	psi	12,500
Shear Strength	D732	psi	10,000
Izod Impact, Notched	D256	ft-lb/in	0.6
Coefficient of Friction, Dynamic	-	-	0.25
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	4.5x10 ⁻⁵
Melting Point	D3418	°F	500
Continuous Use	-	°F	220
Thermal Conductivity	-	in/hr/ft ² /F°	1.7
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	390
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	195
Flammability, UL94	-	1/8 inch	HB
Electrical Properties	tested method	unit	value
Dielectric constant	D150	-	3.8
Surface resistivity	D257	Ohm/cm	≥10 ¹³
Dielectric strength	D149	V/mil	350
Compliance Properties	tested method	unit	value
FDA	-	-	Yes
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.