

## SUSTAMID® 66 (Extruded Nylon)

	ASTM Test method	Unit	Value
<b>Physical Properties</b>			
Specific Gravity	D792	g/cm <sup>3</sup>	1.14
Water Absorption 24 hours	D570	%	1
Water Absorption Saturation	D570	%	8.5
Dissipation Factor	D150	1 MHz	0.02
<b>Mechanical Properties</b>			
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
<b>Thermal properties</b>			
CTE, linear	D696	in/in/°F	4.5x10 <sup>-5</sup>
Melting Point	D3418	°F	500
Continuous Use	-	°F	220
Thermal Conductivity	-	in/hr/ft <sup>2</sup> /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
<b>Electrical properties</b>			
Dielectric constant	D150	-	3.8
Surface resistivity	D257	Ohm/cm	≥10 <sup>13</sup>
Dielectric strength	D149	V/mil	350
<b>Compliance Properties</b>			
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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