

## Technical Data Sheet

# Sustamid® 66 black - ASTM

### 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
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	1.14
Water Absorption	ASTM D570	%	8.5
Water Absorption 24 hours	ASTM D570	%	1
Dissipation Factor	ASTM D150	1MHz	0.02
<b>Mechanical properties</b>			
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	M	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
<b>Thermal properties</b>			
Thermal Conductivity		in/hr/ft <sup>2</sup> /°F	1.7
CTE, linear	ASTM D696	1/K	4.5x10 <sup>5</sup>

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	Test method	Unit	Guideline value
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
<b>Electrical properties</b>			
Dielectric constant	ASTM D150	1MHz	3.8
Dielectric strength	ASTM D149	V/mil	350
Surface resistivity	ASTM D257	Ω/cm	≥10 <sup>13</sup>
<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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