

## Technical Data Sheet

# Sustamid<sup>®</sup> 66 GF 30 black - ASTM

PA 66

### Typical characteristics

- Good dimensional stability
- High hardness
- High rigidity
- High heat deflection temperature
- High absorption of moisture of up to 2.7 % in standard atmosphere

### Typical industries

- Mechanical Engineering Industry
- Electronics

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	ASTM D792	g / cm <sup>3</sup>	1.34
Water Absorption 24 hours	ASTM D570	%	0.7
Dissipation Factor	ASTM D150	1MHz	0.018
Water Absorption Saturation	ASTM D570	%	5.5
<b>Mechanical properties</b>			
Tensile Strength at yield 73°F	ASTM D638	psi	12,200
Tensile Modulus	ASTM D638	psi	1,200,000
Elongation at Break	ASTM D638	%	6
Flexural Strength	ASTM D790	psi	26,000
Flexural Modulus	ASTM D790	psi	1,100,000
Compressive Strength	ASTM D695	psi	19,000
Rockwell Hardness	ASTM D785		101
Rockwell Hardness	ASTM D785	R	122
Izod Impact, Notched	ASTM D256	ft-lb/in	1.5
Coefficient of Friction, Dynamic			0.31
<b>Thermal properties</b>			
Thermal Conductivity		in/hr/ft <sup>2</sup> /°F	2
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10 <sup>-5</sup>	1.7

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	Test method	Unit	Guideline value
Melting Point	ASTM D789	°F	500
Continuous Service Temperature, Air		°F	220
Flammability, UL94		1/8 inch	HB
Deflection Temperature at 264psi	ASTM D648	°F	380
Deflection Temperature at 66psi	ASTM D648	°F	485
<b>Electrical properties</b>			
Dielectric constant	ASTM D150	1MHz	3.5
Dielectric strength	ASTM D149	V/mil	350
Surface resistivity	ASTM D257	Ω/cm	>10 <sup>13</sup>
<b>Compliance properties</b>			
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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