

Technical data sheet

SUSTAMID® 66 GF 30 (Extruded Nylon Glass Filled 30%)

Product characteristics

- Good dimensional stability; high hardness & rigidity
- Very high heat deflection temperature
- High absorption of moisture of up to 2.7% in standard conditions

Typical field of application

- Mechanical engineering
- Electronic industry
- Aircraft & vehicle construction

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	1.34
Water Absorption 24 hours	D570	%	0.7
Water Absorption Saturation	D570	%	5.5
Dissipation Factor	D150	1 MHz	0.018
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	-
Rockwell Hardness	D785	M	M101
Rockwell Hardness	D785	R	R122
Tensile Strength at yield 73 °F	D638	psi	22,500
Tensile Modulus	D638	psi	1,200,000
Elongation at Break	D638	%	6
Flexural Strength	D790	psi	26,000
Flexural Modulus	D790	psi	1,100,000
Compressive Strength	D695	psi	19,000
Shear Strength	D732	psi	-
Izod Impact, Notched	D256	ft-lb/in	1.5
Coefficient of Friction, Dynamic	-	-	0.31
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	1.7x10 ⁻⁵
Melting Point	D3418	°F	500
Continuous Use	-	°F	220
Thermal Conductivity	-	in/hr/ft ² /F°	2
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	485
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	380
Flammability, UL94	-	1/8 inch	HB
Electrical Properties	tested method	unit	value
Dielectric constant	D150	-	3.5
Surface resistivity	D257	Ohm/cm	≥10 ¹³
Dielectric strength	D149	V/mil	350
Compliance Properties	tested method	unit	value
FDA	-	-	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.