

Technical data sheet

SUSTAMID® 6G MO (Cast Nylon MoS₂ filled)

Product characteristics

- High rigidity & good toughness even at high temperatures
- Good UV resistance
- High absorption of moisture of up to 3% in standard conditions

Typical field of application

- Mechanical engineering
- Oil & gas industry
- Steel industry

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	1.15
Water Absorption 24 hours	D570	%	0.7
Water Absorption Saturation	D570	%	7.0
Dissipation Factor	D150	1 MHz	-
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	D80
Rockwell Hardness	D785	M	M80
Rockwell Hardness	D785	R	R117
Tensile Strength at yield 73 °F	D638	psi	12,500
Tensile Modulus	D638	psi	460,000
Elongation at Break	D638	%	35
Flexural Strength	D790	psi	16,000
Flexural Modulus	D790	psi	450,000
Compressive Strength	D695	psi	13,000
Shear Strength	D732	psi	11,000
Izod Impact, Notched	D256	ft-lb/in	0.6
Coefficient of Friction, Dynamic	-	-	0.22
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	4x10 ⁻⁵
Melting Point	D3418	°F	430
Continuous Use	-	°F	200
Thermal Conductivity	-	in/hr/ft ² /F°	1.7
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	370
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	200
Flammability, UL94	-	1/8 inch	HB
Electrical Properties	tested method	unit	value
Dielectric constant	D150	-	3.8
Surface resistivity	D257	Ohm/cm	≥10 ¹²
Dielectric strength	D149	V/mil	410
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.