

Technical data sheet

SUSTAMID® 6G OL (Cast Nylon Oil filled)

Product characteristics

- Self-lubricating with excellent sliding properties
- Improved “stick-slip” properties
- High absorption of moisture of up to 3% in standard conditions

Typical field of application

- Mechanical engineering
- Material handling
- Packaging industry

Physical Properties	tested method	unit	value
Specific Gravity	D792	g/cm ³	1.15
Water Absorption 24 hours	D570	%	1.0
Water Absorption Saturation	D570	%	5.0
Dissipation Factor	D150	1 MHz	-
Mechanical Properties	tested method	unit	value
Hardness	D785	Shore D	D74
Rockwell Hardness	D785	M	M85
Rockwell Hardness	D785	R	R115
Tensile Strength at yield 73 °F	D638	psi	11,000
Tensile Modulus	D638	psi	370,000
Elongation at Break	D638	%	30
Flexural Strength	D790	psi	14,000
Flexural Modulus	D790	psi	380,000
Compressive Strength	D695	psi	13,500
Shear Strength	D732	psi	8,000
Izod Impact, Notched	D256	ft-lb/in	1.2
Coefficient of Friction, Dynamic	-	-	0.12
Thermal Properties	tested method	unit	value
CTE, linear	D696	in/in/°F	5x10 ⁻⁵
Melting Point	D3418	°F	430
Continuous Use	-	°F	210
Thermal Conductivity	-	in/hr/ft ² /F°	1.7
Deflection Temperature at 1.8Mpa (66psi)	D648	°F	380
Deflection Temperature at 1.8Mpa (264psi)	D648	°F	200
Flammability, UL94	-	1/8 inch	HB
Electrical Properties	tested method	unit	value
Dielectric constant	D150	-	3.7
Surface resistivity	D257	Ohm/cm	≥10 ¹³
Dielectric strength	D149	V/mil	500
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.