Technical Data Sheet

Sustamid® 6G OL - ASTM

Typical characteristics

- Self-lubricating
- Improved "stick-slip" properties
- high absorption of moisture of up to 3 % in standard atmosphere
- Good sliding properties

Typical industries

- Mechanical Engineering Industry
- Conveyor Technology & Automation

	Test method	Unit	Guideline value
General properties			
Density	ASTM D792	g / cm^3	1.15
Water Absorption	ASTM D570	%	5.0
Water Absorption 24 hours	ASTM D570	%	1.0
Dissipation Factor	ASTM D150	1MHz	-
Mechanical properties			
Hardness	ASTM D2240	Shore D	74
Tensile Strength at yield 73°F	ASTM D638	psi	11000
Tensile Modulus	ASTM D638	psi	370000
Elongation at Break	ASTM D638	%	30
Flexural Strength	ASTM D790	psi	14000
Flexural Modulus	ASTM D790	psi	380000
Compressive Strength	ASTM D695	psi	13500
Rockwell Hardness	ASTM D785		85
Rockwell Hardness	ASTM D785	R	115
Shear Strength	ASTM D732	psi	8000
Izod Impact, Notched	ASTM D256	ft-lb/in	1.2
Coefficient of Friction, Dynamic			0.12
Thermal properties			
Thermal Conductivity		in/hr/ft^2 /°F	1.7

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	Test method	Unit	Guideline value
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F x10^{-5}	5.0
Melting Point		°F	430
Continuous Service Temperature, Air		°F	210
Flammability, UL94		1/8 inch	HB
Deflection Temperature at 264psi	ASTM D648	°F	200
Deflection Temperature at 66psi	ASTM D648	°F	380
Electrical properties			
Dielectric constant	ASTM D150	1MHz	3.7
Dielectric strength	ASTM D149	V/mil	500
Surface resistivity	ASTM D257	Ω/cm	>10^{13}
Compliance properties			
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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