



Extruded - Nylon



Sustamid® 6/6

- High wear resistance
- Harder, stiffer and better dimensional stability under heat than Sustamid 6

Applications: • Friction bearings • Bushings • Gears • Guides • Cams • Valve Seats • Sleeves
• Bushings • Couplings • Washers • Gaskets • Rollers • Wear Pads

Sizes: Available in Thin Sheet, Sheet, Rod, Coil, Strip

Characteristics					
Material	MoS2 Filled	Natural	Standard Dimensions	Standard Range	Non-Standard Range
Thin Sheet		X	40" x 72"	.020" - .025" Thick	Special Lengths
Sheet		X	24" x 48"	3/8" - 2" Thick	Close Tolerance • Special Lengths
Rod	X	X	120" Lengths	1/4" - 6"Diameter	Centerless Ground to Special Diameters. Special Lengths
Coil		X	40" Wide • Length to Order	.010" - .040" Thick	
Strip		X	Slit to Order • Length to Order	.010" - .040" Thick	

PROPERTY	UNITS	ASTM	NATURAL	MOS2 FILLED
Density	gm/cm ³	D792	1.15	1.15
Tensile Strength at Yield 73°F	psi	D638	11,800	11,800
Tensile Modulus of Elasticity 73°F	psi	D638	450,000	450,000
Elongation 73°F	%	D638	30 - 60	20 - 60
Flexural Modulus of Elasticity 73°F	psi	D790	365,500	365,500
Flexural Strength 73°F	psi	D790	14,500	14,500
Shear Strength 73°F	psi	D732	9,500	9,500
Coefficient of Friction 73°F	-	-	0.35 - 0.45	0.35 - 0.45
IZOD Impact Strength 73°F	ft-lbs/inch	D256	2.5	2.5
Hardness 73°F	-	D785	R115	R115
Tensile Impact	ft-lbs/inch	D1822	90-170	90-17
Deformation Under Load	%	D621	1, 0 - 3,0	1, 0 - 3,
Melting Point	°F	D789	491	491
Coefficient of Linear Thermal Expansion	1/K	D696	4.5 x 10 ⁻⁵	4.5 x 10 ⁻⁵
Continuous Service Temp. in Air (Max)	°F	-	248	248
Deflection Temperature 66 psi	°F	D648	430	430
Deflection Temperature 264 psi	°F	D648	200-450	200-450
Flammability - According to UL 94 (1)	*	UL 94	V-2	V-2
Flammability - According to ASTM (2)	%	D2863	26	26
Comparative Tracking Index	-	D3638	CTI 600	CTI 600
Volume Resistivity	Ohm/cm	D257	1014	1014
Dielectric Constant (103 Hz)	-	D150	3.6	3.6
Dielectric Constant (10 x Hz)	-	D150	3.4	3.4
Dissipation Factor (Tan δ at 103 Hz)	-	D150	0.015	0.015
Dielectric Strength	KV/mm	D149	> 12	> 12