



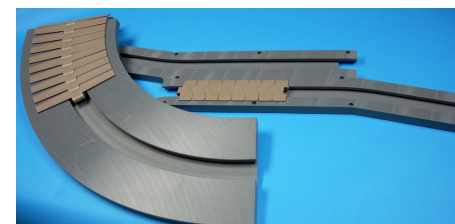
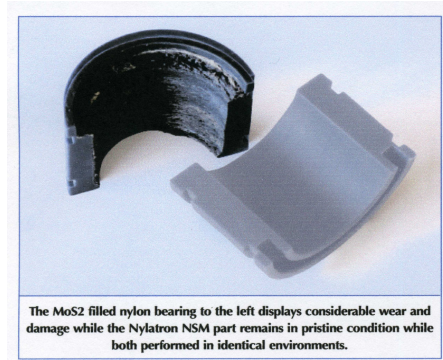
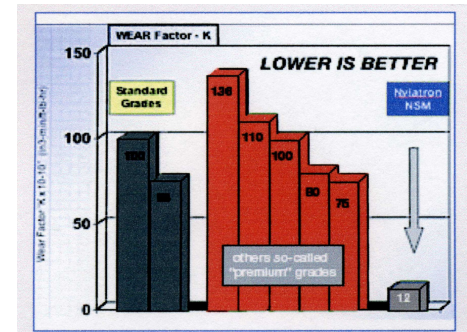
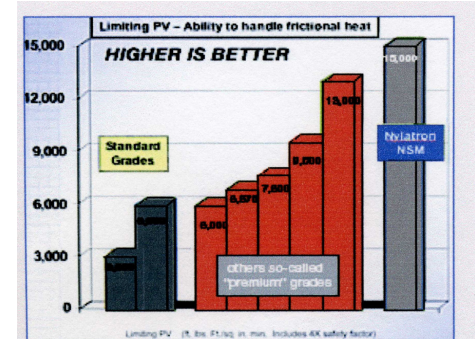
Nylatron® NSM Outlasts Them All!

Developed for demanding applications, Nylatron® NSM outperforms other premium wear grade materials! Ideal for bushings and other high wear applications Nylatron® NSM offers superior wear resistance at an affordable price. Nylatron® NSM provides:

- Reduced weight and noise reduction
- Corrosion Resistance
- Less downtime
- Reduced maintenance
- Increased performance
- Improved productivity
- Self lubricating performance

Data Sheet - Nylatron® NSM Premium Wear-Resistant PA6

Property	Units	Test Method	Typical Average Value
Specific Gravity, 73°F	-	ASTM D792	1.15
Tensile Strength, 73°F	psi	ASTM D638	11,000
Tensile Modulus of Elasticity, 73°F	psi	ASTM D638	410,000
Tensile Elongation (at break), 73°F	%	ASTM D638	20
Flexural Strength, 73°F	psi	ASTM D790	16,000
Flexural Modulus of Elasticity, 73°F	psi	ASTM D790	475,000
Shear Strength, 73°F	psi	ASTM D732	10,000
Compressive Strength, 10% Deformation, 73°F	psi	ASTM D695	14,000
Compressive Modulus of Elasticity, 73°F	psi	ASTM D695	400,000
Hardness, Rockwell, Scale as noted, 73°F	-	ASTM D785	M80 (R110)
Hardness, Durometer, Shore "D" Scale, 73°F	-	ASTM D2240	D85
Izod Impact (notched), 73°F	ft. lb./in.	ASTM D256 Type "A"	.05
Coefficient of Friction (Dry vs. Steel) Dynamic	-	QTM 55007	0.18
Limiting PV (with 4:1 safety factor applied)	ft. lbs. in. ² min.	QTM 55007	15,000
Wear Factor "K" x 10 ⁻¹⁰	in. ² -min./ft. lbs. hr.	QTM 55010	12
Coefficient of Liner Thermal Expansion (-40°F to 300°F)	in./in./°F	ASTM E-831 (TMA)	5.5 x 10 ⁻⁵
Heat Deflection Temperature 264 psi	°F	ASTM D648	200
Tg-Glass Transition (amorphous)	°F	ASTM D3418	N/A
Melting Point (crystalline) peak	°F	ASTM D3418	420
Continuous Service Temperature in Air (Max.) (1)	°F	-	200
Thermal Conductivity	BTU in./hr. ft. ² °F	-	-
Dielectric Strength, Short Term	Volts/mil	ASTM D149	400
Surface Resistivity	ohms/square	EOS/ESD S11.11	>10 ¹³
Dielectric Constant, 10 ⁶ Hz	-	ASTM D150	-
Dissipation Factor, 10 ⁶ Hz	-	ASTM D150	-
Flammability @ 3.1 mm (1.8 in.) (3)	-	UL94	HB
Water Absorption Immersion, 24 Hours	% by wt.	ASTM D570 (2)	0.3
Water Absorption Immersion, Saturation	% by wt.	ASTM D570 (2)	7



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