

## Nylatron® NSM Nylon

Nylatron NSM is the premium bearing and wear nylon product available today. Solid lubricant additives impart self-lubricating, high pressure/velocity and superior wear resistance characteristics. This wear resistance is delivered without either start-up or running lubrication making it ideal for bearings, gears and wear pads. It is a proprietary type 6 nylon formulation produced using Quadrant EPP's Monocast process. Nylatron NSM was developed specifically for demanding applications where larger size parts are required. In wear applications, Nylatron NSM lasts up to 10 times longer than standard Type 6 nylon.

Property	Method	Unit	Value
<b>Mechanical</b>			
Specific Gravity, 73°F	D792		1.15
Tensile Strength, 73°F	D638	psi	11,000
Tensile Modulus of Elasticity, 73°F	D638	psi	410,000
Elongation, 73°F	D638	%	20.0
Flexural Strength, 73°F	D790	psi	16,000
Flexural Modulus, 73°F	D790	psi	475,000
Shear Strength, 73°F	D732	psi	10,000
Compressive Strength, 10% Def., 73°F	D695	psi	14,000
Compressive Modulus of Elasticity, 73°F	D695	psi	400,000
Hardness, Rockwell, Scale as noted, 73°F	D785		M80 (R110)
Hardness, Durometer, Shore D scale, 73°F	D2240		D85
Izod Impact (notched), 73°F	D256 Type A	ft-lb/in	0.5
Coefficient of Friction (Dry vs Steel) Dynamic	PTM55007		0.18
Limiting PV, 73°F	PTM55007	psi-fpm	15,000
k (wear) factor	PTM55010		9
<b>Thermal</b>			
Coefficient of linear Thermal Expansion	E-831(TMA)	in/in/°F	5.20 x 10 <sup>-5</sup>
Deflection Temperature 264 psi	D648	°F	200
Melting Point (crystalline) peak	D3418	°F	420
Continuous Service Temperature in Air (Max.)		°F	200
<b>Electrical</b>			
Dielectric Strength, Short Term	D149(2)	Volts/mil	400
Surface Resistivity	EOS/ESD S11.11	Ohm/square	10 <sup>^13</sup>

**For additional information about our products call 1-800-366-0300 or via e-mail at [select.support@qplas.com](mailto:select.support@qplas.com)**

All statements, technical information and recommendations contained in this publication are presented good faith, based upon tests believed to be reliable and practical field experience. The reader is cautioned, however, that Quadrant EPP cannot guarantee the accuracy or completeness of this information, and it is the customer's responsibility to determine the suitability of Quadrant EPP's products in any given application. Fluorosint, Nylatron, Ertalyte, Acetron, MC and Techtron are all registered trademarks of Quadrant EPP. Delrin and Teflon are registered trademarks of E. I. DuPont, Torlon - Solvay Advanced Polymers, Ultem-GE Plastics.

# Product Data Sheet



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Property	Method	Unit	Value
<b>Chemical</b>			
Acids, Weak, 73°F/23°C, acetic acid, dilute hydrochloric or sulfuric			Limited Service
Acids, Strong, 73°F/23°C, conc. hydrochloric or sulfuric			Unacceptable
Alkalies, Weak, 73°F/23°C, dilute ammonia or sodium hydroxide			Limited Service
Alkalies, Strong, 73°F/23°C, conc. ammonia or sodium hydroxide			Unacceptable
Hydrocarbons-Aromatic, 73°F/23°C, benzene, toluene			Acceptable Service
Hydrocarbons-Aliphatic, 73°F/23°C, gasoline, hexane, grease			Acceptable Service
Ketones, Esters, 73°F/23°C, acetone, methyl ethyl ketone			Acceptable Service
Ethers, 73°F/23°C, diethyl ether, tetrahydrofuran			Acceptable Service
Chlorinated Solvents, 73°F/23°C, methylene chloride, chloroform			Limited Service
Alcohols, 73°F/23°C, methanol, ethanol, anti-freeze			Limited Service
Inorganic Salt Solutions, 73°F/23°C, sodium chloride, potassium cyanate			Acceptable Service
Continuous Sunlight, 73°F/23°C			Limited Service
<b>Miscellaneous</b>			
Water Absorption Immersion, 24 hr	D570	%	0.25
Water Absorption Immersion, Sat.	D570	%	7.00
<b>Compliance</b>			
UL94			HB

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