

Product Data Sheet



Nylatron® GSM Blue Nylon

Nylatron GSM Blue nylon is the first cast nylon to combine both molybdenum disulfide and oil for the load capability of Nylatron GSM nylon, plus improved frictional characteristics. It excels in higher pressures, and at low speeds- up to 40 fpm. It offer 20% lower coefficient of friction, 50% greater limiting PV, and a lower "k" factor than Nylatron GSM, and the lowest "slip-stick" of any nylon product. It is ideal for slide pads, thrust washers and trunion bearings. Nylatron GSM blue should be considered for any oil-filled nylon application. It is dark blue in color.

Property	Method	Unit	Value
Mechanical			
Specific Gravity, 73°F	D792		1.15
Tensile Strength, 73°F	D638	psi	10,000
Tensile Modulus of Elasticity, 73°F	D638	psi	500,000
Elongation, 73°F	D638	%	30.0
Flexural Strength, 73°F	D790	psi	15,000
Flexural Modulus, 73°F	D790	psi	500,000
Compressive Strength, 10% Def., 73°F	D695	psi	13,000
Compressive Modulus of Elasticity, 73°F	D695	psi	425,000
Hardness, Rockwell, Scale as noted, 73°F	D785		M80 (R117)
Izod Impact (notched), 73°F	D256 Type A	ft-lb/in	0.9
Coefficient of Friction (Dry vs Steel) Dynamic	PTM55007		0.18
Limiting PV, 73°F	PTM55007	psi-fpm	5,500
k (wear) factor	PTM55010		65
Thermal			
Coefficient of linear Thermal Expansion	E-831(TMA)	in/in/°F	5.50 x 10 ⁻⁵
Deflection Temperature 264 psi	D648	°F	200
Melting Point (crystalline) peak	D3418	°F	420
Continuous Service Temperature in Air (Max.)		°F	200
Electrical			
Surface Resistivity	EOS/ESD S11.11	Ohm/square	10 ¹³
Chemical			
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

For additional information about our products call 1-800-366-0300 or via e-mail at 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.

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Chemical			
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
Miscellaneous			
Water Absorption Immersion, 24 hr	D570	%	0.22
Water Absorption Immersion, Sat.	D570	%	6.00
Compliance			
UL94			HB

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