

Product Data Sheet



Nylatron® GS Nylon

Nylatron GS Nylon is a nylon and molybdenum disulphide (MoS₂) composition designed to improve the mechanical, thermal and bearing properties of type 6/6 nylon while maintaining its basic electrical and chemical characteristics. Through compounding, finely divided particles impart extra lubricity to this nylon, permitting Nylatron GS parts to operate with little or no lubrication. The added lubricity also contributes dramatically to component service life, making Nylatron GS a very cost-efficient choice. Nylatron GS nylon offers greater wear resistance, lower surface friction, higher strength and greater rigidity than unfilled 6/6 with improved dimensional stability.

Property	Method	Unit	Value
Mechanical			
Specific Gravity, 73°F	D792		1.16
Tensile Strength, 73°F	D638	psi	12,500
Tensile Modulus of Elasticity, 73°F	D638	psi	480,000
Elongation, 73°F	D638	%	25.0
Flexural Strength, 73°F	D790	psi	17,000
Flexural Modulus, 73°F	D790	psi	460,000
Shear Strength, 73°F	D732	psi	10,500
Compressive Strength, 10% Def., 73°F	D695	psi	16,000
Compressive Modulus of Elasticity, 73°F	D695	psi	420,000
Hardness, Rockwell, Scale as noted, 73°F	D785		M85 (R115)
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		0.20
Limiting PV, 73°F	PTM55007	psi-fpm	3,000
k (wear) factor	PTM55010		90
Thermal			
Coefficient of linear Thermal Expansion	E-831(TMA)	in/in/°F	6.40 x 10 ⁻⁵
Deflection Temperature 264 psi	D648	°F	200
Melting Point (crystalline) peak	D3418	°F	500
Continuous Service Temperature in Air (Max.)		°F	220
Thermal Conductivity		BTU-in/(hr-ft ² °F)	1.70

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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Electrical			
Dielectric Strength, Short Term	D149(2)	Volts/mil	350
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
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	%	0.30
Water Absorption Immersion, Sat.	D570	%	7.00
Compliance			
UL94			V-2

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