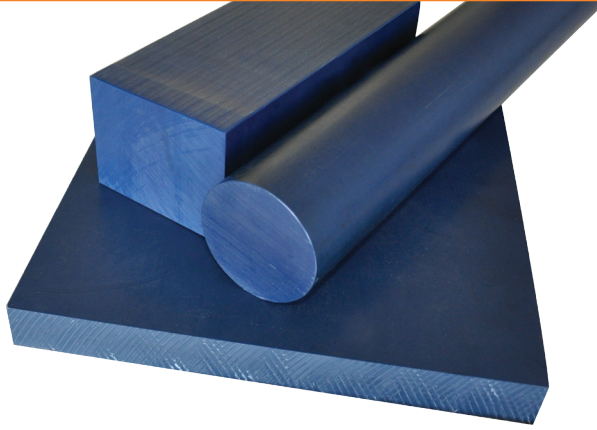


NYLATRON® GSM Blue PA6

**SIMPLY NO
SUBSTITUTE**

BEARING GRADE EXCELS IN HIGH PRESSURE AND AT LOW SPEEDS



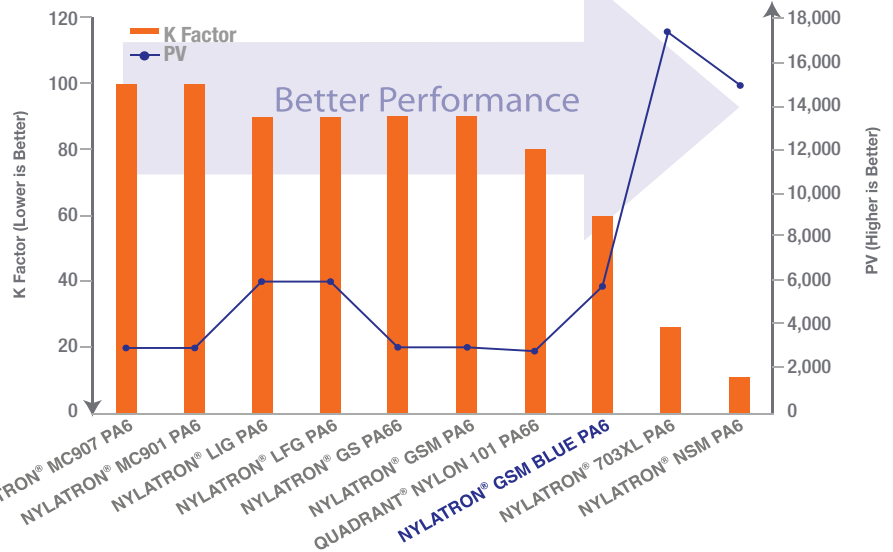
Nylatron® GSM Blue PA6 is the first cast Nylon to combine both molybdenum disulfide (MoS2) and oil. With the load capability of Nylatron® GSM PA6 Nylon plus improved frictional characteristics, Nylatron® GSM Blue PA6 excels in higher pressures and at low speeds (up to 40 fpm). It offers 20% lower coefficient of friction, 50% greater limiting PV, and a lower “k” factor than Nylatron® GSM PA6 – making Nylatron® GSM Blue PA6 ideal for slide pads, thrust washers and trunion bearings. Nylatron® GSM Blue PA6 is dark blue in color and should be considered for any oil-filled Nylon application.

Key Benefits

- MoS2 and oil filled
- Improved frictional characteristics
- Excels in higher pressures and at low speeds-up to 40 fpm
- Lower coefficient of friction, greater limiting PV, and a lower “k” factor than Nylatron® GSM PA6

Availability

- Shapes:**
- Sheet/Plate
 - Rod
 - Tube
 - Near Net Shapes



Aceltron®
GP

Duratron®
PAI, PEI, PI, PBI

Ertalyte®
PET-P

Fluorosint®
PTFE

Ketron®
PEEK

Nylatron®
PA6, PA66

Sanalite®
HDPE/PP

Semitron®
ESd

Techtron®
PPS

TIVAR®
UHMW-PE

NYLATRON® GSM Blue PA6

PA PRODUCT APPLICATION

The difference between the static and dynamic COF's indicates "slip-stick." A large difference indicates high slip-stick, and a low (or no) difference indicates low slip-stick. Slip-stick characteristics are important for applications which move intermittently, or require a back-and-forth motion. For a low slip-stick plastic, look to Nylatron® GSM Blue PA6 and Nylatron® 703XL PA6.

TIPS

GUILLOTINE WATER GATE GUIDE

Application: This application is for a wear strip in a very unique gate valve which is used to control the water levels in adjoining bodies of water.

Benefits: The moisture resistance of plastic, combined with its good wear factor makes this Nylatron® GSM Blue PA6 valve more resistant to corrosion and friction than steel.

Data Sheet - NYLATRON® GSM Blue PA6

	Property	Units	Test Method	Typical Average Value
Mechanical Properties	Specific Gravity @ 73°F	-	ASTM D792	1.15
	Tensile Strength @ 73°F	psi	ASTM D638	6,000
	Tensile Modulus of Elasticity @ 73°F	psi	ASTM D638	500
	Tensile Elongation (at break) @ 73°F	%	ASTM D638	30
	Flexural Strength @ 73°F	psi	ASTM D790	15,000
	Flexural Modulus of Elasticity @ 73°F	psi	ASTM D790	500
	Shear Strength @ 73°F	psi	ASTM D732	-
	Compressive Strength @ 10% Deformation @ 73°F	psi	ASTM D695	13,000
	Compressive Modulus of Elasticity @ 73°F	psi	ASTM D695	425
	Hardness, Rockwell, Scale as Noted @ 73°F	-	ASTM D785	117
	Hardness, Durometer, Shore "D" Scale @ 73°F	-	ASTM D2240	-
	Notched Izod Impact @ 73°F	ft. lb./in. ²	ASTM D256 Type A	0.9
	Coefficient of Friction - (Dry vs. Steel) Dynamic	-	QTM 55007	0.18
	Limiting PV with 4:1 safety factor applied	ft. lb., in. ² - min	QTM 55007	5,500
	Wear Factor K x 10 ⁻¹⁰	TIVAR®1000=100	QTM 55010	6
Thermal Properties	Coefficient of Liner Thermal Expansion (-40°F to 300°F)	in./in./°F	ASTM E831 (TMA)	65.0 x 10 ⁻¹⁰
	Heat Deflection Temperature @ 264 psi	°F	ASTM D648	200 °F
	Tg-Glass Transition (amorphous)	°F	ASTM D3418	-
	Melting Point (crystalline) peak	°F	ASTM D3418	420 °F
	Continuous Service Temp in Air (Max.) ⁽¹⁾	°F	-	200 °F
	Thermal Conductivity	BTU in./(hr. ft. ² °F)	F433	-
Electrical Properties	Dielectric Strength (Short Term)	Volts/mil	ASTM D149	-
	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 @ 3.1mm (1/8 in.) ⁽³⁾	-	UL94	-
Other	Water Absorption Immersion, 24 Hours	% by wt.	ASTM D570 ⁽²⁾	0.3
	Absorption Immersion, Saturation	% by wt.	ASTM D570 ⁽²⁾	6

- (1) Data represents Quadrant's estimated maximum long-term service temperature based on practical field experience.
 (2) Specimens: 1/8" thick x 2" diameter or square.
 (3) Estimated rating based on available data. The UL-94 Test is a laboratory test and does not relate to actual fire hazard.

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