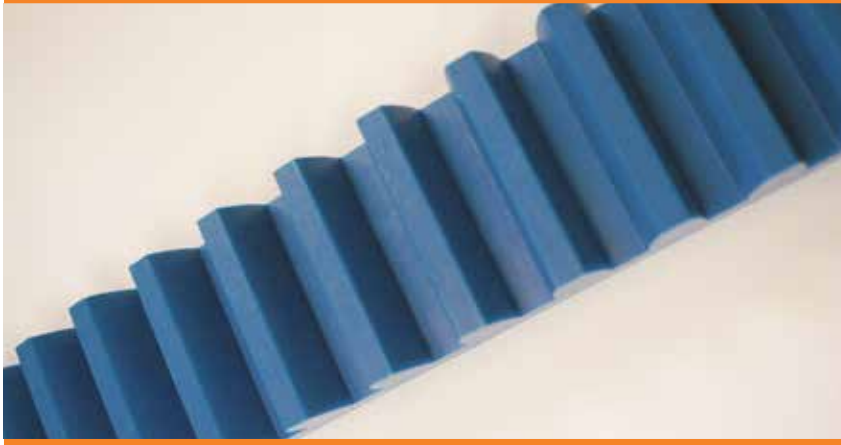


NYLATRON® MC 901 PA6

**SIMPLY NO
SUBSTITUTE**

HEAT-STABILIZED NYLON OFFERING OUTSTANDING PERFORMANCE FOR BEARING AND STRUCTURAL APPLICATIONS



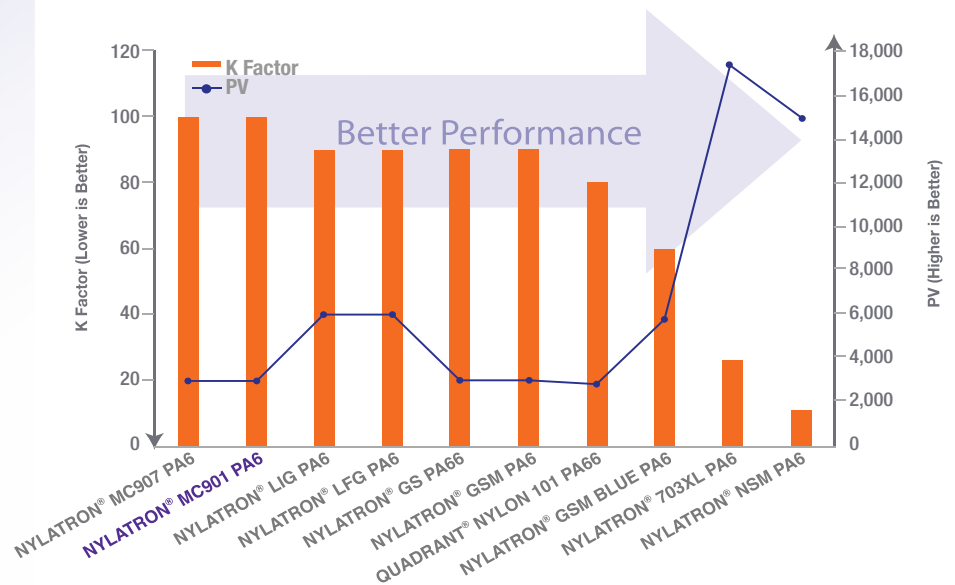
Nylatron® MC 901 PA6 is a heat-stabilized Nylon offering long-term thermal stability to 260°F. It is blue in color and can be used in a variety of bearing and structural applications, including wheels, gears, and custom parts. Nylatron® MC 901 PA6 can be used at higher temperatures than standard grade Nylons.

Key Benefits

- Long-term thermal stability to 260°F
- Broad range of sizes
- Good mechanical and electrical properties
- Offers strength and toughness
- Can be cast as finished parts and near net shapes

Availability

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



Acetron® 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® MC 901 PA6

PA PRODUCT APPLICATION



DIFFUSER NOZZLE

Problem: A submerged stainless steel nozzle was costly to fabricate and difficult to manipulate.

Solution: This custom cast Nylatron® MC 901 PA6 part replaced a multi-piece assembly and improved performance.

Benefits: The chemical and moisture resistance of plastics, combined with the production efficiency of custom casting, drastically reduced the cost to use this part.

Data Sheet - NYLATRON® MC 901 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	12,000
	Tensile Modulus of Elasticity @ 73°F	psi	ASTM D638	400
	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	500
	Shear Strength @ 73°F	psi	ASTM D732	11,000
	Compressive Strength @ 10% Deformation @ 73°F	psi	ASTM D695	15,000
	Compressive Modulus of Elasticity @ 73°F	psi	ASTM D695	400
	Hardness, Rockwell, Scale as Noted @ 73°F	-	ASTM D785	115
	Hardness, Durometer, Shore "D" Scale @ 73°F	-	ASTM D2240	85
	Notched Izod Impact @ 73°F	ft. lb./in. ²	ASTM D256 Type A	0.4
	Coefficient of Friction - (Dry vs. Steel) Dynamic	-	QTM 55007	0.2
	Limiting PV with 4:1 safety factor applied	ft. lb., in. ² - min	QTM 55007	3,000
Wear Factor K x 10 ⁻¹⁰	TIVAR®1000=100	QTM 55010	100 x 10 ⁻¹⁰	
Thermal Properties	Coefficient of Liner Thermal Expansion (-40°F to 300°F)	in./in./°F	ASTM E831 (TMA)	50
	Heat Deflection Temperature @ 264 psi	°F	ASTM D648	200
	Tg-Glass Transition (amorphous)	°F	ASTM D3418	-
	Melting Point (crystalline) peak	°F	ASTM D3418	420
	Continuous Service Temp in Air (Max.) ⁽¹⁾	°F	-	260
	Thermal Conductivity	BTU in./(hr. ft. ² °F)	F433	2.37
Electrical Properties	Dielectric Strength (Short Term)	Volts/mil	ASTM D149	500
	Surface Resistivity	ohms/square	EOS/ESD S11.11	>10 ¹³
	Dielectric Constant, 10 ⁶ Hz	-	ASTM D150	3.7
	Dissipation Factor, 10 ⁶ Hz	-	ASTM D150	-
	Flammability @ 3.1mm (1/8 in.) ⁽³⁾	-	UL94	HB
Other	Water Absorption Immersion, 24 Hours	% by wt.	ASTM D570 ⁽²⁾	0.6
	Absorption Immersion, Saturation	% by wt.	ASTM D570 ⁽²⁾	7

- (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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