

Introducing...

NYLATRON® WP PA6

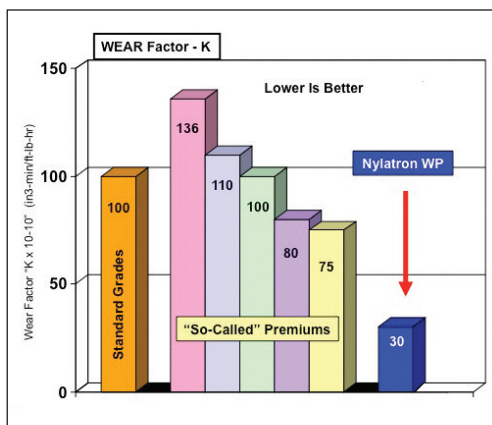
SIMPLY NO SUBSTITUTE

Wear Pad Grade Nylatron

- ▶ Cost vs. Performance makes Nylatron® WP a real value
- ▶ Excellent wear properties, low friction, and stress free
 - Low wear factor, $k = 30$
 - High limiting PV, up to 5X standard Nylons
- ▶ Reduces chatter and “stick slip”
- ▶ Longer part life
- ▶ Outperforms competing Nylon materials in wear resistance and load bearing capabilities



New cost-effective high performance material for wear pad applications.



Measure the Performance

Developed specifically for wear pads, Nylatron WP outperforms its competition across a wide range of applications and in multiple industries.

Nylatron WP offers an economical solution to provide superior performance, weight and noise reduction, corrosion resistance, and easy machining.

This self-lubricating Nylon reduces maintenance and the associated downtime and cost.

Nylatron WP truly outlasts them all. Give your Quadrant representative a call or visit us on the web to learn more.



QUADRANT

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Nylatron® WP PA6

Quadrant's Wear Resistant Grade of Cast Nylon optimized for linear bearing applications. Offers an ideal combination of value and performance.

	Property	Units	Test Method	Typical Average Values
Mechanical	Specific Gravity, 73° F	-	ASTM D792	1.15
	Tensile Strength, 73° F	psi	ASTM D638	10,500
	Tensile Modulus of Elasticity, 73° F	psi	ASTM D638	420,000
	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	450,000
	Shear Strength, 73° F	psi	ASTM D732	10,000
	Compressive Strength, 10% Deformation, 73° F	psi	ASTM D695	14,000
	Compressive Modulus of Elasticity, 73° F	psi	ASTM D695	400,000
	Hardness, Rockwell, Scale as noted, 73° F	-	ASTM D785	M80 (R110)
	Hardness, Durometer, Shore "D" Scale, 73° F	-	ASTM D2240	D85
	Izod Impact (notched), 73° F	ft.lb./in.	ASTM D256 Type "A"	0.5
	Coefficient of Friction (Dry vs. Steel) Dynamic	-	QTM 55007	0.18
	Limiting PV (with 4:1 safety factor applied)	ft.lbs.in. ² min.	QTM 55007	13,500
	Wear Factor "k" x 10 ⁻¹⁰	in. ³ -min/ft. lbs. hr.	QTM 55010	30
Thermal	Coefficient of Linear Thermal Expansion (-40°F to 300°F)	in./in./°F	ASTM E-831 (TMA)	5.5 x 10 ⁻⁶
	Heat Deflection Temperature 264 psi	°F	ASTM D648	200
	Tg-Glass Transition (amorphous)	°F	ASTM D3418	N/A
	Melting Point (crystalline) peak	°F	ASTM D3418	420
	Continuous Service Temperature in Air (Max.) ⁽¹⁾	°F	-	200
	Thermal Conductivity	BTU in./(hr.ft. ² °F)	-	NA
Electrical	Dielectric Strength, Short Term	Volts/mil	ASTM D149	NA
	Surface Resistivity	ohms/square	EOS/ESD S11.11	≥ 10 ¹³
	Dielectric Constant, 10 ⁵ Hz	-	ASTM D150	NA
	Dissipation Factor, 10 ⁵ Hz	-	ASTM D150	NA
	Flammability @ 3.1 mm (1/8 in.) (3)	-	UL94	HB
Misc.	Water Absorption Immersion, 24 Hours	% by wt.	ASTM D570(2)	0.3
	Water Absorption Immersion, Saturation	% by wt.	ASTM D570(2)	7.0

(1) Data represent 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. Contact Quadrant for specific UL "Yellow Card" recognition number.

All statements, technical information and recommendations contained in this publication are presented in good faith based upon tests believed to be reliable and practical field experience. The reader is cautioned, however, that Quadrant Engineering Plastic Products does not guarantee the accuracy or completeness of this information and it is the customer's responsibility to determine the suitability of Quadrant's products in any given application.

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