

NYLATRON 703 XL PA6


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PHYSICAL PROPERTIES

Nylatron® 703 XL sets a new standard of machined part performance for linear bearing and wear pad applications. The wear resistance of NSM with added benefit of zero "slip-stick" makes Nylatron 703 XL an ideal material for applications where precise motion control is required.

Units equipped with Nylatron 703 XL can accurately display smaller movements made possible by today's sophisticated control devices. Static and dynamic coefficients of friction that approximate each other at virtually every point over the product's useful range, make this possible.

Nylatron 703 XL was developed to meet the increasing needs of engineers in the construction and production equipment industries. Materials like Nylatron® NSM and Nylatron® GSM are still available, and are widely used in critical bearing applications.

Property	Method	Unit	Nominal Value*
Density	ASTM D-792	g/cm ³	1.11
Tensile strength at yield	ASTM D-638	psi	9,000
Tensile modulus	ASTM D-638	psi	400,000
Elongation at yield	ASTM D-638	%	n/a
Elongation at break	ASTM D-638	%	15
Tensile impact	DIN 53448	ft-lbs/in ²	n/a
Flexural modulus	ASTM D-790	psi	360,000
Flexural strength	ASTM D-790	psi	13,000
Izod impact	ASTM D-4020	ft-lbs/in ²	n/a
IZOD impact notched	ASTM D-2240	ft-lbs/in ²	0.7
Compressive modulus	ASTM D-695	psi	360,000
Compressive deformation	ASTM D-695	1% at 1000 psi	n/a
Hardness	ASTM D-2240	Shore D	65
Melting point	ASTM D-3417	°F	420
Coefficient of linear thermal expansion	ASTM D-696	µin/in-°F	49
Heat deflection temperature, 264 psi	ASTM D-648	°F	200
Vicat softening temperature	ASTM D-1525	°F	n/a
Max. operating temp. (Air)		°F	200
Volume Resistivity	ASTM D-257	Ohm-cm	n/a
Surface Resistivity	ASTM D-257	Ohm	1.00E+12
Water absorption 24hrs.	ASTM D-570	%	n/a
Water absorption, Saturation	ASTM D-570	%	n/a

*All values are determined on specimens prepared according to ASTM 1248-84 "Standard Specifications for Polyethylene Plastic Molding and Extrusion Materials". Nominal values should not be interpreted as specifications.

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