

NYLATRON NSM, PA6, Lubricated



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PHYSICAL PROPERTIES

Nylatron NSM is the premium bearing and wear nylon product available today. Solid lubricant additives impart self-lubricating, high pressure/velocity and superior wear resistance characteristics. This wear resistance is delivered without either start-up or running lubrication making it ideal for bearings, gears and wear pads. It is a proprietary type 6 nylon formulation produced using Quadrant EPP's Monocast process. Nylatron NSM was developed specifically for demanding applications where larger size parts are required. In wear applications, Nylatron NSM lasts up to 10 times longer than standard Type 6 nylon.

Property	Method	Unit	Nominal Value*
Density	ASTM D-792	g/cm ³	1.15
Tensile strength at yield	ASTM D-638	psi	11,000
Tensile modulus	ASTM D-638	psi	410,000
Elongation at yield	ASTM D-638	%	n/a
Elongation at break	ASTM D-638	%	20
Tensile impact	DIN 53448	ft-lbs/in ²	n/a
Flexural modulus	ASTM D-790	psi	475,000
Flexural strength	ASTM D-790	psi	16,000
Izod impact	ASTM D-4020	ft-lbs/in ²	n/a
IZOD impact notched	ASTM D-2240	ft-lbs/in ²	0.5
Compressive modulus	ASTM D-695	psi	400,000
Compressive deformation	ASTM D-695	1% at 1000 psi	n/a
Hardness	ASTM D-2240	Shore D	85
Melting point	ASTM D-3417	°F	420
Coefficient of linear thermal expansion	ASTM D-696	in/in/°F	5 x 10 ⁻⁵
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	>10 ¹³
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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