

## NYLATRON GS PA6, MoS2 Filled Ext.



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## PHYSICAL PROPERTIES

Nylatron GS Nylon is a nylon and molybdenum disulphide (MoS<sub>2</sub>) composition designed to improve the mechanical, thermal and bearing properties of type 6/6 nylon while maintaining its basic electrical and chemical characteristics. Through compounding, finely divided particles impart extra lubricity to this nylon, permitting Nylatron GS parts to operate with little or no lubrication. The added lubricity also contributes dramatically to component service life, making Nylatron GS a very cost-efficient choice. Nylatron GS nylon offers greater wear resistance, lower surface friction, higher strength and greater rigidity than unfilled 6/6 with improved dimensional stability.

Property	Method	Unit	Nominal Value*
Density	ASTM D-792	g/cm <sup>3</sup>	1.16
Tensile strength at yield	ASTM D-638	psi	12,500
Tensile modulus	ASTM D-638	psi	480,000
Elongation at yield	ASTM D-638	%	n/a
Elongation at break	ASTM D-638	%	25
Tensile impact	DIN 53448	ft-lbs/in <sup>2</sup>	n/a
Flexural modulus	ASTM D-790	psi	460,000
Flexural strength	ASTM D-790	psi	17,000
Izod impact	ASTM D-4020	ft-lbs/in <sup>2</sup>	n/a
IZOD impact notched	ASTM D-2240	ft-lbs/in <sup>2</sup>	0.5
Compressive modulus	ASTM D-695	psi	420,000
Compressive deformation	ASTM D-695	1% at 1000 psi	n/a
Hardness	ASTM D-2240	Shore D	85
Melting point	ASTM D-3417	°F	500
Coefficient of linear thermal expansion	ASTM D-696	in/in/°F	5 x 10 <sup>-5</sup>
Heat deflection temperature, 264 psi	ASTM D-648	°F	220
Vicat softening temperature	ASTM D-1525	°F	n/a
Max. operating temp. (Air)		°F	220
Volume Resistivity	ASTM D-257	Ohm-cm	n/a
Surface Resistivity	ASTM D-257	Ohm	>10 <sup>13</sup>
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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