

## NYLATRON GS PA6, MoS2 Filled



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## PHYSICAL PROPERTIES

Nylatron GSM cast nylon contains finely divided particles of molybdenum disulfide to enhance its load bearing capabilities while maintaining the impact resistance inherent to nylon. It is the most commonly used grade for gears, sheaves, sprockets and custom parts. It is gray-black in color

Property	Method	Unit	Nominal Value*
Density	ASTM D-792	g/cm <sup>3</sup>	1.16
Tensile strength at yield	ASTM D-638	psi	11,000
Tensile modulus	ASTM D-638	psi	400,000
Elongation at yield	ASTM D-638	%	n/a
Elongation at break	ASTM D-638	%	30
Tensile impact	DIN 53448	ft-lbs/in <sup>2</sup>	n/a
Flexural modulus	ASTM D-790	psi	500,000
Flexural strength	ASTM D-790	psi	16,000
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	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 <sup>-5</sup>
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 <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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