

# Nylatron®

## GS Polyamide

### OVERVIEW

Nylatron® GS Polyamide Type 6/6 Molybdenum disulphide (MoS<sub>2</sub>) filled nylon offering improved strength and rigidity. With a lower coefficient of linear thermal expansion than Nylon 101, Nylatron® GS PA66 parts maintain better fit and clearances, and have less tendency to seize as bearings.

### APPLICATIONS & USES

- Bushings and Bearings
- Conveyor Wear Components
- Gears
- Metal Replacement Applications
- Pulleys
- Roller Wheels
- Sheaves
- Wear Pads
- Bearing & Wear Parts
- Valve Seats and Seals

### TECHNICAL DATA

PROPERTY	VALUE
Tensile Strength	12,500 psi
Tensile Modulus	480,000 psi
Tensile Elongation at Break	25%
Flexural Strength	17,000 psi
Flexural Modulus	460,000 psi
Compressive Strength	16,000 psi
Compressive Modulus	420,000 psi
Hardness	Rockwell M115
IZOD Impact-Notched	0.5 ft-lb/in
Dynamic Coefficient of Friction	0.2
Wear K Factor	90 in <sup>3</sup> -min/ft-lbs-hr
Limiting PV	3,000 psi-fpm
Coefficient of Linear Thermal Expansion	4 x 10 <sup>-5</sup> in./in./°F

The data provided gives the typical properties of the material. These are "typical" properties only, and should not be used for specification purposes. This information is based on our experience to date and we believe it to be reliable. It is intended to be used only as a guide at your discretion and risk. Jade cannot guarantee favorable results and assumes no liability in connection with the use of this product. None of this information is to be taken as a license to operate under, or recommendation to infringe, any patents.



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PROPERTY	VALUE
Heat Deflection Temp	200° F
Melting Point Temp	500° F
Max Continuous Operation Temp	220° F
Minimum Operating Temp	-22° F
Thermal Conductivity	1.7 BTU-in/ft <sup>2</sup> -hr-°F
Flammability Rating	V-2
UV Resistant	No

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