



Gantiel Vensott Pty. Ltd.

# Venlon 6GoF

[ Green oil filled Cast Nylon ]

## TECHNICAL DATA SHEET:



### Venlon 6GoF Product Description

A complex blended oil lubrication system, uniformly distributed throughout the product guarantees constant performance over the whole service life of this exceptional oil-loaded nylon. Excellent sliding frictional properties, abrasion resistance

and stick/ slip performance make this product a first choice for unlubricated moving parts. Its reduced coefficient of friction (-50%) and improved wear resistance (up to 10 times) make it suitable for a wide range of applications.

### Venlon 6GoF Plastics Applications

Nylon is used for a wide range of industrial components both for Original Equipment Manufacture and maintenance. Some examples: sleeve and slide bearings, wear pads, support and guide wheels, conveyor rollers, tension rollers, sleeves for wheels and rollers, pulleys and pulley linings, cams, buffer blocks, hammer heads, scrapers, gear wheels, sprockets, seal rings, feed screws, star wheels, cutting and chopping boards, insulators, self lubricating slides, under chain wear strips, etc.

### Other Material Properties

Venlon 6GoF is a material that is self lubricating in dry running applications assisted greatly with a consistent high wear performance throughout the product life.

Property	Method of verification	Unit	Value
Specific Gravity	D792	g/cm <sup>3</sup>	1.14–1.15
Tensile Strength	D638	psi	9,500–11,000
Tensile Elongation	D638	%	35–55
Tensile Modulus	D638	psi	375,000–475,000
Compressive Strength	D695	psi	13,500–15,000
Compressive Modulus	D695	psi	275,000–375,000
Flexural Strength	D790	psi	14,000–16,000
Flexural Modulus	D790	psi	375,000–475,000
Shear Strength	D732	psi	8,000–9,000
Notched Izod impact	D256	ft.lbs/in.	1.4–1.8
Hardness Rockwell	D785	R	100–115
Hardness Shore	D2240	D	74–80
Melting Point	D789	°F	430 +/- 10
Coefficient of linear Thermal Expansion	D696	in./in./°F	5.0 x 10 <sup>-5</sup>
Deformation under load	D621	%	0.7–3.0
Deflection Temperature 264 psi	D648	°F	200–400
66 psi	D648	°F	300–400
Continuous Service Temperature		°F	230
Intermittent Service Temperature		°F	330
Coefficient of Friction: Dynamic	D1894	%	0.12
Water Absorption 24 Hours	D570	%	0.4–0.6
Saturation	D570	%	4.0–5.0
Dielectric Strength	D149	v/mil.	500–600
Dielectric Constant 60 Cycles	D150		3.7
1,000 Cycles	D150		3.7
100,000 Cycles	D150		3.7
Compliance	FDA USDA 3A UL 94 HB		NOT Compliant NOT Compliant NOT Compliant

### Venlon 6GoF Delivery Program (Green Oil filled)

#### Venlon 6GoF Sheet

Thickness—Sizes:  
6mm to 60mm—2440mm x 1220mm  
6mm to 100mm—1220mm x 610mm  
Note: Specialty sheet size and blocks are available on request ex o/seas

#### Venlon 6GoF Rod

Outside Diameter: 25mm to 500mm

#### Venlon 6GoF Tube

(Non-stock items available on request)

### Key Features and Benefits:

- Improved wear and abrasion resistance
- Improved load bearing
- Excellent mechanical properties
- Excellent thermal properties
- Excellent chemical resistance properties
- Good dimensional stability
- Reduced water absorption

**Please note:**  
1g/cm<sup>3</sup>=1000kg/m<sup>3</sup>  
1MPa=1N/mm<sup>2</sup>  
1KV/mm=1MV/m



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— Engineering Plastic Solutions —

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