

Vendel N (Natural Acetal)

Product Information Sheet

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Gantiel Vensott

Product Information

Trade name:	Vendel N
Designation:	Polyoxymethylene Copolymer
Type of polymer:	Thermoplastic
Food compliance BfR	Yes
Food compliance FDA:	Yes
Colour:	Natural

Product Description

Vendel N has high hardness and stiffness, with very good mechanical properties. It has excellent creep resistance and dimensional stability, which makes it ideal for machining of precision parts. The co-efficient of friction is low, and the dielectric properties are excellent. It has very good stick/ slip properties. The acetal copolymer is the ideal combination of strength, stiffness and wear resistance. It absorbs very little moisture, is easily machinable and is genuinely porosity-free, making it the preferred grade for food contact and medical applications. The product exhibits an elevated resistance to hydrolysis. Dimensional stability makes acetal extremely good for use with press fitted metallic bearings.

Properties

Density:	1.14 g/cm ³	ISO 1183
Tensile modulus of elasticity:	2,600 MPa	ISO 527-2
Specific surface resistance:	10 ¹³ Ohm	IEC 60093
Temperature for usage in air: (max. short term)	140 °C	

Applications

- Precision Gears
- Electrical Engineering Insulators
- Parts which operate in water up to 90°C
- High speed wheels and rollers where high dimensional stability is needed to avoid flat spots
- Bearing with close tolerances
- Snap fit assemblies
- Low water absorption parts

Key Features and Benefits

- High mechanical strength
- Excellent machinability
- Very low stick-slip
- Low moisture absorption
- Dimensional stability
- Good creep resistance
- Physiologically inert
- Continuous use at temperature 115°C



Delivery Program

Rods - Outside diameter	5mm – 250mm
Rods – Length	1000mm, 3000mm
Sheets – Thickness	6mm – 100mm
Sheets – Size	2000mm x 1000mm and 1000mm x 610mm
Tube – Length	1500mm
Tolerance on length:	0% to +3%
Tolerance on width:	+1% to +4%

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