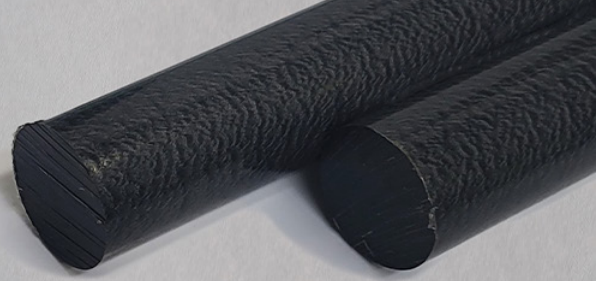


Nylon 66 GS

Material Information



Nylon 66 GS

Product full identity:

[Nylon 66 GS](#) / [Nylatron GS](#) / [Nylon MoS2](#)

Nylon 66 GS offers higher strength, stiffness, heat, and wear resistance than standard Nylon 66, with enhanced creep resistance. Ideal for gears, bushes, washers, and other mechanical applications, it provides a reliable performance in demanding engineering projects.

Properties

- High strength and stiffness
- High wear and creep resistance
- Good temperature range (+80 to -20°C)
- Good creep resistance
- Easily machined

Applications

- Gears
- Bushes
- Washers
- Mechanical
- Applications that require wear resistance

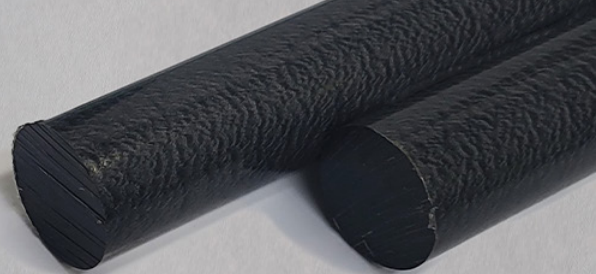
Forms



Solid Rod

Nylon 66 GS

Technical Properties



Physical	Unit	Test Method	Result
Specific gravity	g/cm ³	ISO 1183-1	1.15
Water absorption until saturation at 23°C	%	ISO 62	0.68
Maximum service temp. Upper temp limit – short term	°C	-	-
Maximum service temp. Upper temp limit – long term	°C	-	80
Lower temp limit	°C	-	-20
Mechanical	Unit	Test Method	Result
Tensile strength	MPa	ISO 527-1/-2	95
Elongation at yield	%	-	-
Tensile strength at break	MPa	ISO 527-1/-2	20
Unnotched impact strength	kJ/m ²	ISO 179-1/1eU	No break
Notch impact strength	kJ/m ²	ISO 179-1/1eA	4
Ball indentation / Rockwell hardness	MPa	ISO 2039-2	88
Shore-D		-	-
Flexural modulus of elasticity	MPa	ISO 178	3240
Tensile modulus of elasticity	MPa	ISO 527-1/-2	3600
Thermal	Unit	Test Method	Result
Vicat-softening point VST/B/50	°C	-	-
Heat deflection temperature HDT/B	°C	ISO 75-1/-2	85
Coefficient of linear thermal expansion 23 – 100°C	m/(m.K)	-	90
Thermal conductivity at 23°C	W/mK	-	0.29
Electrical	Unit	Test Method	Result
Volume resistivity	Ω x m	IEC 60093	>10 ¹⁴
Surface resistivity	Ω	ANSI/ESD STM 11.11	>10 ¹³
Insulation resistivity	Ω . cm	-	-
Dielectric constant at 1MHz		IEC 60250	3.30
Dielectric loss factor at 1MHz		IEC 60250	0.02
Dielectric strength	kV/mm	IEC 60243-1	26
Comparative tracking index (CTI)		-	-
Additional Data	Unit	Test Method	Result
Bondability		-	-
Food compliance – FDA		FDA	No
Food compliance – EU		EU 10/2011	No
Antistatic		-	-
Flammability	Unit	Test Method	Result
Fire performance		UL 94	HB
Optical	Unit	Test Method	Result
N/A	N/A	N/A	N/A

All information provided in this Product Datasheet is for guide purposes only. The data has been taken from standard test results provided by our manufacturers.