



Material: Nylon 66 30% Glass Filled

Nylon 66 30% Glass Filled - Compared with virgin Nylon 66 this 30% glass fibre reinforced and heat stabilised nylon grade offers increased strength, stiffness, creep resistance and dimensional stability whilst retaining an excellent wear resistance. It also allows higher service temperatures.

Technical Specification

Property	Test Method	Units	Value
Colour	-	-	Black
Density	ISO 1183	g/cm ³	1.29
Water Absorption - saturation in air (23°C/50%RH)	-	%	5.5
Water Absorption - saturation in water (23°C)	-	%	1.7
Tensile strength* ¹	ISO 527	N/mm ²	100
Tensile modulus of elasticity* ¹	ISO 527	N/mm ²	5900
Elongation at break* ¹	ISO 527	%	5
Impact - Charpy* ¹	179/1eU	kJ/m ²	>50
Impact – Izod notched	180/2A	kJ/m ²	6
Hardness	Rockwell Shore D	-	M76
Melt point	-	°C	255
Max service temp in air short periods	-	°C	240
Max service temp continuously for 20000hrs	-	°C	110
Linear thermal expansion coefficient	-	K ⁻¹ x10 ⁻⁵	5.0
Thermal Conductivity	-	W/(K.m)	0.3
Flammability (6mm thickness)	-	-	HB
Volume resistivity* ¹	IEC93	Ohm.cm	>10 ¹⁴
Dielectric strength* ¹	IEC243	Kv/mm	30
Outside applications – UV resistance	-	-	A
Acids – strong (Ph<3)	-	-	C
Alkalis – strong (pH>11)	-	-	B/C
Chlorinated Hydrocarbons	-	-	A/B
Hot Water	-	-	B
'A' – Acceptable service, 'B' – Limited, 'C' – Unacceptable			
* ¹ Measured on dry test specimens (where applicable)			

Availability:

Rod, 1m & 3m long – 8-200mm diameter

Plate, 1m & 3m long x 625 wide – 10-100mm thickness

Applications:

Racks, Pinions, Gears, Bearings, Rollers, Wheels, Cams, Nuts, Valve seats, Pulleys, Gaskets, Electrical Insulator.

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The data shown are typical values and are not intended to represent specifications. Their aim is to guide the user toward a material choice.

Not all material sizes shown within the availability programme of this data sheet are available as standard.

Please contact ABG Rubber and Plastics Ltd for further details.