

Nylatron GSM with additive for improved friction and wear behavior

ISO	PA polyamide
Shape	shape_65
Color	Anthracite
Temperature Range	-30 and 90 °C
tbl_temp_melting	215 °C
Density	1160 kg/m ³
Hardness	0 Shore A (± 0)
Elongation at break	800 %

Material information

Nylon with addition molybdenum disulfide (MOS₂) giving an improvement in friction and wear behavior. This cast material is especially available in larger sizes, below is the extrusion grade GS.

Usage examples

It is a widely used grade for sprockets, bearings, sprockets and pulleys.

Measurement tolerance 2768-mK

Item Overview

Item Code	Item Name	Width (mm)	Length (mm)
71700500	Nylatron GSM buis 100x50 mm		
71700700	Nylatron GSM buis 90x70 mm		
71700750	Nylatron GSM buis 100x75 mm		
71700800	Nylatron GSM buis 100x80 mm		
71701100	Nylatron GSM buis 160x110 mm		
71701400	Nylatron GSM buis 190x140 mm		
71701450	Nylatron GSM buis 190x145 mm		
71701500	Nylatron GSM buis 170x150 mm		
71701570	Nylatron GSM buis 150x70 mm		2.000
71701600	Nylatron GSM buis 210x160 mm		
71701650	Nylatron GSM buis 210x165 mm		
71701700	Nylatron GSM buis 75x40 mm		1.000
71701750	Nylatron GSM buis 140x75 mm		
71701800	Nylatron GSM buis 230x180 mm		
71702200	Nylatron GSM buis 280x220 mm		
71702240	Nylatron GSM buis 275x240 mm		
71703100	Nylatron GSM buis 350x310 mm		
71703150	Nylatron GSM buis 350x315 mm		
71703300	Nylatron GSM buis 400x330 mm		



71703800	Nylatron GSM buis 450x380 mm	600
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Thermal properties

[tbl_thermal_explainer](#)

[tbl_thermische_geleiding](#) [tbl_lin_uitzet_2360](#) [tbl_lin_uitzet_23100](#) [tbl_temp_deflection_load](#)

0,300 W/(K.m)	80 x 10-6 m/(m.K)	90 x 10-6 m/(m.K)	80 °C
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Mechanical properties

[tbl_mechanical_explainer](#)

[tbl_tension_norm](#) [tbl_tension_stress_yield](#) [tbl_tension_strain_yield](#) [tbl_tension_strain_break](#) [tbl_modulus_elasticity](#)

ISO 527-1/-2	82 MPa	5 %	25 %	3.400 MPa
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Impact tests

[tbl_charpy_izod_explainer](#)

[tbl_charpy_impact](#) [tbl_charpy_unnotched](#) [tbl_charpy_notched](#) [tbl_izod_impact](#) [tbl_izod_impact_notched](#)

ISO 179-1	KJ/m ²	3 KJ/m ²	ISO 179-1	0
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Dynamische Coefficient of Friction

[tbl_dcf_explainer](#)

[tbl_dcf](#) [tbl_dcf_min](#) [tbl_dcf_max](#) [tbl_dcf_wear](#)

ISO 179-1	0,350	0,550	11 µm/km
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Electrical properties

Tests related to the electrical resistivity and conductivity of the material.

Electric strength **Volume resistance** **Surface resistance**

IEC 60243-1	24 kV/mm	IEC 60093	>10E 14 Ohm.cm	IEC 60093	>10E 13 Ohm/sq.
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Related materials

Code	Group Name	Shape	Color
602	PA Nylatron GS	Sheet	Anthracite
677	PA Nylatron GS staf	Rod	Anthracite
603	PA Nylatron GSM	Sheet	Anthracite
717	PA Nylatron GSM buis	shape_65	Anthracite
678	PA Nylatron GSM staf	Rod	Anthracite

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the properties specific to that situation verified by us. If there are multiple specifications for a product we will use the standard of 2mm or the closest specification.

