

Nylatron GSM with additive for improved friction and wear behavior

ISO	PA polyamide
Shape	Sheet
Color	Anthracite
Temperature Range	-30 and 90 °C
tbl_temp_melting	215 °C
Density	1160 kg/m ³
Elongation at break	25 %
Tensile strength	82 N/mm ²

Material information

Nylon with addition molybdenum disulfide (MOS₂) providing 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)
60300100	PA Nylatron GSM 10 mm		
60300120	PA Nylatron GSM 12 mm		
60300160	PA Nylatron GSM 16 mm		
60300200	PA Nylatron GSM 20 mm		
60300250	PA Nylatron GSM 25 mm		
60300300	PA Nylatron GSM 30 mm		
60300350	PA Nylatron GSM 35 mm		
60300400	PA Nylatron GSM 40 mm		
60300450	PA Nylatron GSM 45 mm		
60300500	PA Nylatron GSM 50 mm		
60300600	PA Nylatron GSM 60 mm		
60300700	PA Nylatron GSM 70 mm		
60300800	PA Nylatron GSM 80 mm		
60300900	PA Nylatron GSM 90 mm		
60301000	PA Nylatron GSM 100 mm		



Water absorption

The extent to which the product absorbs water when tested for 24 hours in water at 23 degrees in accordance with ISO 63.

Immersion	Saturation
0,760 %	6,700 %

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

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

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

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

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.

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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