

Nylatron GS with additive for improved friction and wear behavior

ISO	PA polyamide
Shape	Sheet
Color	Anthracite
Temperature Range	-20 and 80 °C
tbl_temp_melting	260 °C
Density	1150 kg/m ³
Elongation at break	20 %
Tensile strength	95 N/mm ²
Flame Resistance (UL 94)	HB

Material information

Nylon with addition molybdenum disulfide (MOS₂) giving an improvement in friction and wear behavior. This extrusion material is mainly available in smaller sizes, above there is the cast quality GSM.

Usage examples

This material allows for excellent processing into all types of products think of overlays, chain guides, filler stars or other custom applications.

Processing

Excellent for sawing, milling or drilling
Measurement tolerance 2768-mK

Item Overview

Item Code	Item Name	Width (mm)	Length (mm)
60200080	PA Nylatron GS 8 mm		
60200100	PA Nylatron GS 10 mm		
60200120	PA Nylatron GS 12 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

0,680 % 7,800 %

Thermal properties

[tbl_thermal_explainer](#)

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

0,290 W/(K.m) 80 x 10⁻⁶ m/(m.K) 90 x 10⁻⁶ m/(m.K) 85 °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 95 MPa 5 % 20 % 3.600 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	4 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	12 µm/km

Electrical properties

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

Electric strength	Volume resistance	Surface resistance
IEC 60243-1 26 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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