

Nylatron GS with additive for improved friction and wear behavior

ISO	PA polyamide
Shape	Rod
Color	Anthracite
Temperature Range	-20 and 80 °C
tbl_temp_melting	260 °C
Density	1150 kg/m3
Elongation at break	20 %
Tensile strength	95 N/mm2
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)
67700060	PA Nylatron GS staf 6 mm		1.000
67700080	PA Nylatron GS staf 8 mm		1.000
67700100	PA Nylatron GS staf 10 mm		1.000
67700120	PA Nylatron GS staf 12 mm		1.000
67700150	PA Nylatron GS staf 15 mm		1.000
67700160	PA Nylatron GS staf 16 mm		1.000
67700200	PA Nylatron GS staf 20 mm		1.000
67700250	PA Nylatron GS staf 25 mm		1.000
67700300	PA Nylatron GS staf 30 mm		1.000
67700320	PA Nylatron GS staf 32 mm		1.000
67700350	PA Nylatron GS staf 35 mm		1.000
67700400	PA Nylatron GS staf 40 mm		1.000
67700450	PA Nylatron GS staf 45 mm		1.000
67700500	PA Nylatron GS staf 50 mm		1.000



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 %
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Thermal properties

[tbl_thermal_explainer](#)

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

0,290 W/(K.m)	80 x 10-6 m/(m.K)	90 x 10-6 m/(m.K)	85 °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	95 MPa	5 %	20 %	3.600 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	4 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	12 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	26 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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