

PA Nylatron 703 XL is a highly abrasion-resistant material with almost no stick-slip

ISO	PA polyamide
Shape	Sheet
Color	color_pur
Temperature Range	-20 and 90 °C
tbl_temp_melting	215 °C
Density	1110 kg/m3
Hardness	65 Rockwell M
Flame Resistance (UL 94)	HB

Material information

Measurement tolerance 2768-mK

PA Nylatron 703 XL with internal lubrication. This material has even better sliding properties than Nylatron NSM. There is also almost no "stick-slip" making it suitable for very precise applications.

Item Overview

Item Code	Item Name	Width (mm)	Length (mm)
62200060	PA Nylatron 703 XL 6,35 mm		
62200100	PA Nylatron 703 XL 10 mm		
62200120	PA Nylatron 703 XL 12 mm		
62200160	PA Nylatron 703 XL 16 mm		
62200200	PA Nylatron 703 XL 20 mm		
62200250	PA Nylatron 703 XL 25 mm		
62200300	PA Nylatron 703 XL 30 mm		
62200350	PA Nylatron 703 XL 35 mm		
62200400	PA Nylatron 703 XL 40 mm		
62200450	PA Nylatron 703 XL 45 mm		
62200500	PA Nylatron 703 XL 50 mm		
62200550	PA Nylatron 703 XL 55 mm		
62200600	PA Nylatron 703 XL 60 mm		
62200700	PA Nylatron 703 XL 70 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

0,610 % 6,300 %



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) 85 x 10⁻⁶ m/(m.K) 100 x 10⁻⁶ m/(m.K) 70 °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 60 MPa 6 % 15 % 2.750 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 25 KJ/m² 4 KJ/m² 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 0 0 µm/km

Electrical properties

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

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

IEC 60243-1 0 kV/mm IEC 60093 >10E 14 Ohm.cm IEC 60093 >10E 13 Ohm/sq.

We provide product information as known by us with great care. We cannot accept any liability for errors and/or inaccuracies and/or incompleteness. Please note that our products are intended for professional use only. For high impact applications and/or combinations of limit values we always recommend to have 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.

