

All-round extruded plastic for many types of applications especially strong in smaller sizes

ISO	PA polyamide
Shape	Sheet
Color	Black
Temperature Range	-40 and 70 °C
tbl_temp_melting	220 °C
Density	1140 kg/m3
Hardness	88 Rockwell M
Elongation at break	50 %
Tensile strength	80 N/mm2
Flame Resistance (UL 94)	HB

Material information

Extruded Ertalon (nylon) is a universal material for many industrial applications. Especially strong in the thinner sizes up to 10 mm.



FDA

European Food Grade according to EC 1935:2004 USA Food Grade under FDA

Processing

Compared to cast nylon, this material has a higher tension that is relevant in processing.

Measurement tolerance 2768-mK

Item Overview

Item Code	Item Name	Width (mm)	Length (mm)
65100020	PA Ertalon 6 SA zwart 2 mm		
65100030	PA Ertalon 6 SA zwart 3 mm		
65100040	PA Ertalon 6 SA zwart 4 mm		
65100050	PA Ertalon 6 SA zwart 5 mm		
65100080	PA Ertalon 6 SA zwart 8 mm		

Compression set

[tbl_compressieset_explainer](#)

Testing Regulation	Difference
ISO 604	5 %

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
1,280 %	9 %



Thermal properties

[tbl_thermal_explainer](#)

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

0,280 W/(K.m) 90 x 10-6 m/(m.K) 105 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 80 MPa 4 % 50 % 3.300 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/m² 5,500 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 0,400 0,600 19 µm/km

Electrical properties

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

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

IEC 60243-1 25 kV/mm IEC 60093 >10E 14 Ohm.cm IEC 60093 >10E 13 Ohm/sq.

Related materials

Code	Group Name	Shape	Color
601	PA Ertalon 6 PLA naturel	Sheet	color_nat
652	PA Ertalon 6 PLA zwart	Sheet	Black
676	PA Ertalon 6 PLA zwart staf	Rod	Black
600	PA Ertalon 6 SA naturel	Sheet	color_nat
673	PA Ertalon 6 SA naturel staf	Rod	color_nat
651	PA Ertalon 6 SA zwart	Sheet	Black
675	PA Ertalon 6 SA zwart staf	Rod	Black

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.

