

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

ISO	PA polyamide
Shape	Rod
Color	Black
Temperature Range	-40 and 70 °C
tbl_temp_melting	220 °C
Density	1140 kg/m ³
Hardness	88 Rockwell M
Elongation at break	50 %
Tensile strength	80 N/mm ²
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

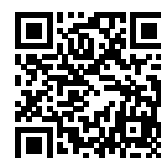
Item Overview

Item Code	Item Name	Width (mm)	Length (mm)
67500100	PA Ertalon 6 SA zwart staf 10 mm		1.000
67500120	PA Ertalon 6 SA zwart staf 12 mm		1.000
67500160	PA Ertalon 6 SA zwart staf 16 mm		1.000
67500250	PA Ertalon 6 SA zwart staf 25 mm		1.000
67500300	PA Ertalon 6 SA zwart staf 30 mm		1.000
67500400	PA Ertalon 6 SA zwart staf 40 mm		1.000
67500450	PA Ertalon 6 SA zwart staf 45 mm		1.000

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/m ²	5,500 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	0,400	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.

