

All-round molded plastic for many types of applications especially strong in sizes from 10 mm and up

ISO	PA polyamide
Shape	Rod
Color	Black
Temperature Range	-30 and 90 °C
tbl_temp_melting	215 °C
Density	1150 kg/m ³
Hardness	88 Rockwell M (± 0)
Elongation at break	25 %
Tensile strength	88 N/mm ²
Flame Resistance (UL 94)	HB

Material information

Cast Ertalon (nylon) is a universal material for many industrial applications. Available from 10 mm below, 6 SA is applied.



FDA

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

Usage examples

Suitable for bearing bushings, and many types of parts such as gears and strips.

Processing

Easy to handle.
Measurement tolerance 2768-mK

Item Overview

Item Code	Item Name	Width (mm)	Length (mm)
67600500	PA Ertalon 6 PLA zwart staf 50 mm		1.000
67600600	PA Ertalon 6 PLA zwart staf 60 mm		1.000
67600650	PA Ertalon 6 PLA zwart staf 65 mm		1.000
67600700	PA Ertalon 6 PLA zwart staf 70 mm		1.000
67600750	PA Ertalon 6 PLA zwart staf 75 mm		1.000
67600800	PA Ertalon 6 PLA zwart staf 80 mm		1.000
67600850	PA Ertalon 6 PLA zwart staf 85 mm		1.000
67600900	PA Ertalon 6 PLA zwart staf 90 mm		1.000
67601000	PA Ertalon 6 PLA zwart staf 100 mm		1.000
67601100	PA Ertalon 6 PLA zwart staf 110 mm		1.000
67601200	PA Ertalon 6 PLA zwart staf 120 mm		1.000
67601300	PA Ertalon 6 PLA zwart staf 130 mm		1.000
67601400	PA Ertalon 6 PLA zwart staf 140 mm		1.000
67601500	PA Ertalon 6 PLA zwart staf 150 mm		1.000



67601600	PA Ertalon 6 PLA zwart staf 160 mm	1.000
67601800	PA Ertalon 6 PLA zwart staf 180 mm	1.000
67602200	PA Ertalon 6 PLA zwart staf 220 mm	1.000
67602500	PA Ertalon 6 PLA zwart staf 250 mm	1.000
67603250	PA Ertalon 6 PLA zwart staf 325 mm	
67603500	PA Ertalon 6 PLA zwart staf 350 mm	1.000
67604000	PA Ertalon 6 PLA zwart staf 400 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

0,650 % 6,500 %

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) 80 °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 88 MPa 5 % 25 % 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/m² 3 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 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 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.

