

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

ISO	PA polyamide
Shape	Sheet
Color	color_nat
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)
60100100	PA Ertalon 6 PLA naturel 10 mm		
60100120	PA Ertalon 6 PLA naturel 12 mm		
60100150	PA Ertalon 6 PLA naturel 15 mm		
60100160	PA Ertalon 6 PLA naturel 16 mm		
60100200	PA Ertalon 6 PLA naturel 20 mm		
60100250	PA Ertalon 6 PLA naturel 25 mm		
60100300	PA Ertalon 6 PLA naturel 30 mm		
60100350	PA Ertalon 6 PLA naturel 35 mm		
60100400	PA Ertalon 6 PLA naturel 40 mm		
60100450	PA Ertalon 6 PLA naturel 45 mm		
60100500	PA Ertalon 6 PLA naturel 50 mm		
60100550	PA Ertalon 6 PLA naturel 55 mm		
60100600	PA Ertalon 6 PLA naturel 60 mm		
60100700	PA Ertalon 6 PLA naturel 70 mm		



60100800	PA Ertalon 6 PLA naturel 80 mm
60100900	PA Ertalon 6 PLA naturel 90 mm
60101000	PA Ertalon 6 PLA naturel 100 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.

