

Versatile polyethylene for use in food and other industries

ISO	PE-UHMW polyethylene, ultra high molecular weight
Shape	Sheet
Color	color_nat
Temperature Range	-200 and 80 °C
tbl_temp_melting	135 °C
Density	930 kg/m ³
Hardness	60 Shore D
Flame Resistance (UL 94)	HB

Material information

Very good cold resistance. Very dense material with low moisture absorption, making it suitable for food applications, for example

Usage examples

This material allows for excellent processing into all types of products think of overlays, chain guides, filler stars or other custom applications.

Processing

Excellent for sawing, milling or drilling

Measurement tolerance 2768-mK

Item Overview

Item Code	Item Name	Width (mm)	Length (mm)
61900010	PE-UHMW 1000 naturel 1 mm		
61900020	PE-UHMW 1000 naturel 2 mm		
61900030	PE-UHMW 1000 naturel 3 mm		
61900040	PE-UHMW 1000 naturel 4 mm		
61900050	PE-UHMW 1000 naturel 5 mm		
61900060	PE-UHMW 1000 naturel 6 mm		
61900080	PE-UHMW 1000 naturel 8 mm	1.000	2.000
61900100	PE-UHMW 1000 naturel 10 mm	1.010	2.020
61900120	PE-UHMW 1000 naturel 12 mm		
61900150	PE-UHMW Tivar 1000 naturel 15 mm		
61900200	PE-UHMW Tivar 1000 naturel 20 mm		
61900250	PE-UHMW Tivar 1000 naturel 25 mm		
61900300	PE-UHMW Tivar 1000 naturel 30 mm		
61900350	PE-UHMW Tivar 1000 naturel 35 mm		
61900400	PE-UHMW Tivar 1000 naturel 40 mm		
61900450	PE-UHMW Tivar 1000 naturel 45 mm		
61900500	PE-UHMW Tivar 1000 naturel 50 mm		



61900600	PE-UHMW Tivar 1000 naturel 60 mm
61900700	PE-UHMW Tivar 1000 naturel 70 mm
61900800	PE-UHMW 1000 naturel 80 mm
61900900	PE-UHMW 1000 naturel 90 mm
61901000	PE-UHMW 1000 naturel 100 mm
61901200	PE-UHMW 1000 naturel 120 mm
61901400	PE-UHMW 1000 naturel 140 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

0,100 % 0,100 %

Thermal properties

[tbl thermal explainer](#)

tbl thermische geleiding tbl lin uitzet 2360 tbl lin uitzet 23100 tbl temp deflection load

0,400 W/(K.m) 200 x 10⁻⁶ m/(m.K) 0 x 10⁻⁶ m/(m.K) 42 °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 19 MPa 15 % 50 % 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 KJ/m² 115 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 0,150 0,300 8 µm/km

Electrical properties

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

Electric strength Volume resistance Surface resistance

IEC 60243-1 45 kV/mm IEC 60093 >10E 14 Ohm.cm IEC 60093 >10E 12 Ohm/sq.



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