

PE-UHMW TIVAR Sterra Electro Static Discharge is made from a reprocessed PE-UHMW, forming a high-quality end product with a much lower environmental impact.

ISO	PE-UHMW polyethylene, ultra high molecular weight
Shape	Sheet
Color	Black
Temperature Range	-150 and 80 °C
tbl_temp_melting	135 °C
Density	950 kg/m ³
Hardness	61 Shore D
Elongation at break	50 %
Tensile strength	20 N/mm ²
Flame Resistance (UL 94)	HB

Material information

Low coefficient of friction. Minimal moisture absorption and good abrasive and corrosion resistance. The material is Electro Static Discharge (ESD) capable (depending on the application)

Usage examples

Suitable as a conductor on conveyor belts in bulk handling, agricultural applications and other applications where static electricity is generated.

Measurement tolerance 2768-mK

Wear resistance

Good

Item Overview

Item Code	Item Name	Width (mm)	Length (mm)
67000050	PE-UHMW TIVAR Sterra ESD zwart 5 mm		
67000060	PE-UHMW TIVAR Sterra ESD zwart 6 mm		
67000080	PE-UHMW TIVAR Sterra ESD zwart 8 mm		
67000100	PE-UHMW TIVAR Sterra ESD zwart 10 mm		
67000150	PE-UHMW TIVAR Sterra ESD zwart 15 mm		
67000200	PE-UHMW TIVAR Sterra ESD zwart 20 mm		
67000250	PE-UHMW TIVAR Sterra ESD zwart 25 mm		
67000300	PE-UHMW TIVAR Sterra ESD zwart 30 mm		
67000350	PE-UHMW TIVAR Sterra ESD zwart 35 mm		
67000400	PE-UHMW TIVAR Sterra ESD zwart 40 mm		
67000500	PE-UHMW TIVAR Sterra ESD zwart 50 mm		
67000600	PE-UHMW TIVAR Sterra ESD zwart 60 mm		
67000800	PE-UHMW TIVAR Sterra ESD zwart 80 mm		
67001000	PE-UHMW TIVAR Sterra ESD zwart 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
0,100 %	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)	0 x 10 ⁻⁶ m/(m.K)	200 x 10 ⁻⁶ m/(m.K)	42 °C

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	116 KJ/m ²	180 KJ/m ²		0

Dynamische Coefficient of Friction

[tbl_dcf_explainer](#)

tbl_dcf	tbl_dcf_min	tbl_dcf_max	tbl_dcf_wear
ISO 179-1	0	0	0 µm/km

Electrical properties

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

Electric strength	Volume resistance	Surface resistance	
IEC 60243-1	0 kV/mm	>10E 8 Ohm.cm	>10E 0 Ohm/sq.

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.

