PE-UHMW TIVAR Oil Filled

TIVAR Oil Filled is a self-lubricating wear resistant material with a low coefficient of friction

ISO	PE-UHMW polyethylene, ultra high molecular weight
Shape	Sheet
Color	color_gre
Temperature Range	-150 and 80 °C
tbl_temp_melting	135 °C
Density	935 kg/m3
Hardness	54 Shore D
Flame Resistance (UL 94)	HB

Material information

TIVAR Oil Filled is a self-lubricating wear-resistant PE with a low coefficient of friction.

Measurement tolerance 2768-mK

FDA

USA Food Grade under FDA

Item Overview

Item Code	Item Name	Width (mm)	Length (mm)
62300060	PE-UHMW Tivar Oil Filled grijs 6 mm		
62300080	PE-UHMW Tivar Oil Filled grijs 8 mm		
62300100	PE-UHMW Tivar Oil Filled grijs 10 mm	1.220	3.050
62300150	PE-UHMW Tivar Oil Filled grijs 15 mm		
62300200	PE-UHMW Tivar Oil Filled grijs 20 mm		
62300300	PE-UHMW Tivar Oil Filled grijs 30 mm		

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)	0 x 10-6 m/(m.K)	0 °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	16 MPa	40 %	50 %	375 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	80 KJ/m^2	ISO 179-1	0

Dynamische Coeffient of Friction

tbl_dcf_explainer

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