



# UHMW-PE Sliding Plates.

## Characteristics

- ▶ Low friction coefficient
- ▶ Very high abrasion resistance
- ▶ UV and ozone resistant
- ▶ Reduced conductivity optional
- ▶ 100% recyclable & non-rotting
- ▶ Available in different colors and bendable

## Applications

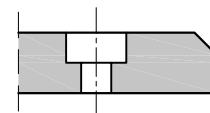
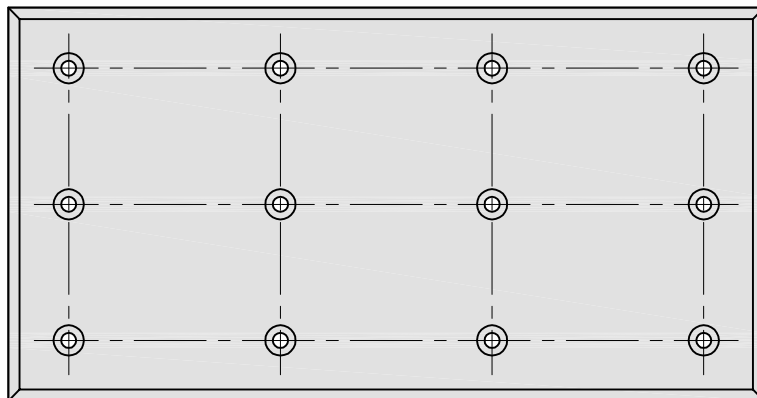
- ▶ Fender panel facing
- ▶ Sliding boards
- ▶ V Fender front shields
- ▶ Lock doors & entrances
- ▶ Quay wall protection
- ▶ Pile protection

## PHYSICAL AND MECHANICAL PROPERTIES

Property	Norms	Virgin Material	Reclaimed Material
Density [g/cm <sup>3</sup> ]	ISO 1183-1	0.93–0.94	0.94–0.96
Molecular Weight [g/mol]	Viscosimetric Method	≥ 4,000,000	≥ 3,000,000
Friction Coefficient	DIN/EN/ISO 8295	0.15–0.20	0.15–0.20
Yield Strength [N/mm <sup>2</sup> ]	ISO 527	≥ 17	≥ 17
Breaking Strength [N/mm <sup>2</sup> ]	ISO 527	≥ 30	≥ 25
Break Elongation [%]	ISO 527	≥ 50	≥ 50
Ball Indentation Hardness [N/mm <sup>2</sup> ]	ISO 2039-1	≥ 32	≥ 38
Shore Hardness [Shore D]	ISO 868/(DIN 53505)	≥ 61	≥ 63
Impact Strength (with V-notch) [mJ/mm <sup>2</sup> ]	ISO 11542-2	≥ 130 colored	≥ 70
Abrasion Sand Slurry Test	ISO 15527	~ 100	≥ 130
Temperature Range [°C]	–	- 200 up to + 80	- 100 up to + 80
Crystalline Melting Point [°C]	ISO 11357-3	132 – 136	132 – 136
Coefficient of Linear Expansion [K <sup>-1</sup> ]	DIN 53752	~ 2 x 10 <sup>-4</sup>	~ 2 x 10 <sup>-4</sup>

This product information and specification is generic and based on our present know-how and randomly performed material tests | Results are therefore not applicable for any specific order and may vary | Machining is done at 18°C | Thermal expansion should be taken into consideration if installation is done at different temperatures

## GENERIC UHMW-PE SLIDING PLATE DRAWING



COUNTERSUNK DETAIL

UHMW-PE Sliding Plates are supplied fully machined or alternatively in raw press format. Available thicknesses from 2 mm to 200 mm for regenerated material and 2 mm to 400 mm for virgin material. Plate sizes range from 1,000 mm x 1,000 mm up to 6,000 mm x 2,500 mm.