



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

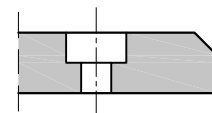
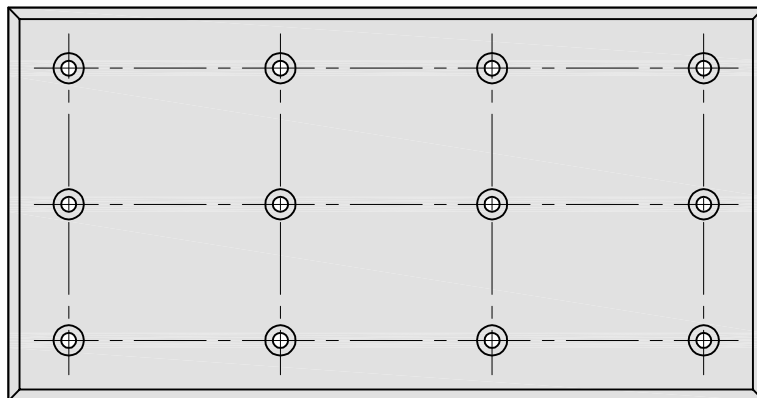
SAFIM AS AGENT

PHYSICAL AND MECHANICAL PROPERTIES

Property	Norms	Virgin Material	Reclaimed Material
Density [g / cm ³]	ISO 1183-1	0.93 – 0.94	0.94 – 0.96
Molecular Weight [g / mol]	Viscosimetric Method	~5,000,000	3,000,000 – 6,000,000
Friction Coefficient	DIN / EN / ISO 8295	0.15 – 0.20	0.15 – 0.20
Tensile Strength [N / mm ²]	ISO 527	17	17
Breaking Strength [N / mm ²]	ISO 527	>40	>30
Break Elongation [%]	ISO 527	50	50
Ball Indentation Hardness [N / mm ²]	ISO 2039-1	38	38
Shore Hardness [Shore D]	ISO 868 / (DIN 53505)	61 – 63	64 – 66
Impact Strength (with V-notch) [mJ / mm ²]	ISO 11542-2	180 coloured	70
Abrasion Sand Slurry Test	ISO 15527	100	130 – 150
Temperature Range [°C]	–	-200 up to +80	-100 up to +80
Crystalline Melting Point [°C]	ISO 3146-C	133 – 136	133 – 136
Coefficient of Linear Expansion [K ⁻¹]	DIN 53752	~ 2 x 10 ⁻⁴	~ 2 x 10 ⁻⁴

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-P E 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.