UHMW-PE Advanced Materials. Engineered for Performance.

UHMW PE1000

UHMW-PE | Brand: Orbilan | Material: PE-UHMW, PE1000

Standard ultra high molecular weight polyethylene liner sheet. The lowest coefficient of friction of any engineering polymer combined with outstanding impact absorption.



Stock status: Ex-stock Dubai - Typical lead time: 2 - 3 working days ex Dubai

Key features

- Eliminates material hang-up and bridging
- One eighth the weight of steel
- Self-lubricating and non-stick

Available forms & sizes

Form	Size range
Plates	2 - 100 mm thk, 1000 x 2000 / 1250 x 3000 mm
Blocks & Profiles	Machined liners, strips, rods and wear parts

Chemical composition (%)

Element	Min	Max
Polymer	-	PE-UHMW

Mechanical properties

Property	Value	Unit
Tensile Strength at Yield	17 - 21	MPa
Elongation at Break	> 300	%
Notched Impact Strength	No break	-
Shore D Hardness	62 - 66	-

Physical properties

Property	Value	Unit
Density	0.93 - 0.94	g/cm3

Property	Value	Unit
Max Service Temperature	80	C

Standards

ISO 11542, DIN 16972

Equivalent grades

PE-UHMW, TIVAR 1000, Polystone M

Industries served

Mining, Cement, Bulk Handling, Agriculture

Typical applications

- Chute and hopper linings
- Silo and bunker linings
- Conveyor guide rails
- Truck body liners

Live datasheet