

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.

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
Max Service Temperature	80	C

Standards

ISO 11542, DIN 16972

Equivalent Grades

PE-UHMW, TIVAR 1000, Polystone M

Typical Applications

- Chute and hopper linings
- Silo and bunker linings
- Conveyor guide rails



AXICOR DWC LLC

Technical Data Sheet

- Truck body liners

Industries Served

Mining, Cement, Bulk Handling, Agriculture