UHMW-PE Advanced Materials. Engineered for Performance.

UHMW PE8000

UHMW-PE | Brand: Orbilan | Material: PE-UHMW enhanced, PE8000

Enhanced UHMW-PE with a higher molecular weight delivering around 30% better abrasion performance than standard PE1000 for the most demanding liner duties.



Stock status: Mill indent - Typical lead time: 4 - 8 weeks mill indent

Key features

- 30% better wear life than PE1000
- Retains full impact resistance

Available forms & sizes

Form	Size range
Plates	6 - 100 mm thk
Blocks & Profiles	Heavy duty liners and wear plates

Chemical composition (%)

Element	Min	Max
Polymer	-	PE-UHMW enhanced

Mechanical properties

Property	Value	Unit
Tensile Strength at Yield	19 - 23	MPa
Elongation at Break	> 300	%
Abrasion (sand slurry, PE1000 = 100)	70	-

Physical properties

Property	Value	Unit
Density	0.94	g/cm3
Max Service Temperature	80	C

Standards

ISO 11542

Equivalent grades

PE-UHMW enhanced, TIVAR HPV

Industries served

Mining, Cement, Bulk Handling

Typical applications

- Heavy duty silo linings
- High wear chute systems
- Dump body liners for abrasive ore

Live datasheet