



Geomembrane Sheets

Description and applications

A strong flexible geomembrane sheet for sealing and protection from mechanical damages and penetration into sealing systems.

The geomembrane sheet is composed of two-layers: a strong and flexible polyethylene sheet (PE layer) for sealing and protection and a PET fabric (PET layer) for strong attachment to concrete molding.

RHINO + is made of 100% recycled materials.

Technical properties:

PE layer:

Properties	Method	Typical value	Unit
Thickness	ASTM D-5199	0.95-1.1	mm
Density	ASTM D792	0.94-0.96	g/cm ³
Ash content	ISO3451-1	2	%
Tear resistance	ASTM D-1004	90-97	N
Tensile properties	ASTM D-6693		
Break elongation		191-435 %	
Break strength		16-25	kN/m
Yield elongation		12	%
Yield strength		12	kN/m

PET layer:

Properties	Method	Typical value	Unit
Thickness	ASTM D-5199	1.9-2.1 (pre lamination)	mm
Density	ASTM D 5261	180-220	g/cm ³
Tear resistance	ASTM D-1004	55-80	N
Tensile elongation (MD)	ASTM D-4632	125	%
Tensile elongation (CD)	ASTM D-4632	220	%
Tensile strength (MD)	ASTM D-4632	176	N
Tensile strength (CD)	ASTM D-4632	183	N
Breaking strength	ASTM D3786	1227	Kpa
Puncture resistance	ASTM D4833	176	N
C.B.R	DIN 54307	644	N
AOS ASTM	D4751	0.56	mm
Permittivity	ASTM D4491	1.45	S-1
Permittivity	ASTM D4491	145	l/m2xs