

HDPE GEOMEMBRANE -SMOOTH 1.00 mm (1000 micron)

PROPERTY	TEST METHOD	FREQUENCY	UNIT	VALUE
Thickness (avg. values)	ASTM D5199	every roll	mm	1.00
Thickness (min.)		every roll	mm	0.90
Melt Index 190/2.16	ASTM D1238	1/batch	g/10 min	1.0
Density	ASTM D792	every 10 rolls	g/cm ³	≥ 0.94
Tensile Properties (2)	ASTM D6693	every 2 rolls		
Strength at Yield			kN/m	18
Strength at Break			kN/m	33
Elongation at Yield			%	13
Elongation at Break			%	700
Tear Resistance	ASTM D1004	every 5 rolls	N	145
Puncture Resistance	ASTM D4833	every 5 rolls	N	410
Carbon Black Content	ASTM D4218	every 2 rolls	%	2-3
Carbon Black Dispersion	ASTM D5596	every 10 rolls	Category	Cat.1 / Cat.2
OIT - standard	ASTM D3895	1/batch	min	> 100
Oven Aging at 85°C	ASTM D5721	per formulation		
Standard OIT - after 90 days	ASTM D3895		%	55
UV Resistance	ASTM D7238	per formulation		
High Pressure OIT	ASTM D3895		%	50
Roll Width			m	7
Roll Length			m	210
Roll Area			m ²	1470

NOTES:

1. Testing frequency based on standard roll dimension and one batch is approximately 84,000 kgs.

2. Machine direction (MD) and cross machine direction (XMD or TD) average values should be on basis of 5 test specimens each direction.

* All values are nominal test results, except as minimum or maximum when specified.

* This specification is provided as guides only and is not intended as a warranty of guarantee. Final determination of suitability for use contemplated is the sole responsibility of the user. VSC deserves the right to change specification contained herein without any notice.

HDPE GEOMEMBRANE -PREMIUM SMOOTH 1.50 mm (1500 micron)

PROPERTY	TEST METHOD	FREQUENCY	UNIT	VALUE
Thickness (avg. values)	ASTM D5199	every roll	mm	1.50
Thickness (min.)		every roll	mm	1.40
Melt Index 190/2.16	ASTM D1238	1/batch	g/10 min	1.0
Density	ASTM D792	every 10 rolls	g/cm ³	≥ 0.94
Tensile Properties (2)	ASTM D6693	every 2 rolls		
Strength at Yield			kN/m	27
Strength at Break			kN/m	60
Elongation at Yield			%	13
Elongation at Break			%	700
Tear Resistance	ASTM D1004	every 5 rolls	N	240
Puncture Resistance	ASTM D4833	every 5 rolls	N	580
Carbon Black Content	ASTM D4218	every 2 rolls	%	2-3
Carbon Black Dispersion	ASTM D5596	every 10 rolls	Category	Cat.1 / Cat.2
OIT - standard	ASTM D3895	1/batch	min	200
Oven Aging at 85°C	ASTM D5721	per formulation		
Standard OIT - after 90 days	ASTM D3895		%	55
UV Resistance	ASTM D7238	per formulation		
High Pressure OIT - after 1600 hrs	ASTM D3895		%	50
Roll Width			m	7
Roll Length			m	140
Roll Area			m ²	980

NOTES:

1. Testing frequency based on standard roll dimension and one batch is approximately 84,000 kgs.
 2. Machine direction (MD) and cross machine direction (XMD or TD) average values should be on basis of 5 test specimens each direction.
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HDPE GEOMEMBRANE -SMOOTH 2.00 mm (2000 micron)

PROPERTY	TEST METHOD	FREQUENCY	UNIT	VALUE
Thickness (avg. values)	ASTM D5199	every roll	mm	2.00
Thickness (min.)		every roll	mm	1.90
Melt Index 190/2.16	ASTM D1238	1/batch	g/10 min	1.0
Density	ASTM D792	every 10 rolls	g/cm ³	≥ 0.94
Tensile Properties (2)	ASTM D6693	every 2 rolls		
Strength at Yield			kN/m	37
Strength at Break			kN/m	67
Elongation at Yield			%	13
Elongation at Break			%	700
Tear Resistance	ASTM D1004	every 5 rolls	N	290
Puncture Resistance	ASTM D4833	every 5 rolls	N	670
Carbon Black Content	ASTM D4218	every 2 rolls	%	2-3
Carbon Black Dispersion	ASTM D5596	every 10 rolls	Category	Cat.1 / Cat.2
OIT - standard	ASTM D3895	1/batch	min	> 100
Oven Aging at 85°C	ASTM D5721	per formulation		
Standard OIT - after 90 days	ASTM D3895		%	55
UV Resistance	ASTM D7238	per formulation		
High Pressure OIT - after 1600 hrs	ASTM D3895		%	50
Roll Width			m	7
Roll Length			m	105
Roll Area			m ²	735

NOTES:

1. Testing frequency based on standard roll dimension and one batch is approximately 84,000 kgs.

2. Machine direction (MD) and cross machine direction (XMD or TD) average values should be on basis of 5 test specimens each direction.

* All values are nominal test results, except as minimum or maximum when specified.

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