



# TECHNICAL DATA SHEET

## Geomembrane HDPE Smooth

2801, Blvd Marie-Victorin, Varennes (Quebec) Canada, J3X 1P7 • Tel.: 1-450-929-1234 • Fax.: 1-450-929-2547 • www.solmax.com

PROPERTY	TEST METHOD	FREQUENCY <sup>(1)</sup>	UNIT <small>Metric</small>	Solmax 460- 2000
Thickness (min. avg.)	ASTM D-5199	Every roll	mm	1.5
Thickness (min.)			mm	1.35
Resin Density	ASTM D-1505	1/Batch	g/cc	> 0.932
Melt Index - Cond. E (max.)	ASTM D-1238	1/Batch	g/10 min.	1.0
Sheet Density	ASTM D-1505	Every 2 rolls	g/cc	> 0.94
Carbon Black Content	ASTM D-4218	Every 2 rolls	%	> 2.0 / < 3.0
Carbon Black Dispersion	ASTM D-5596	Every 6 rolls	Category	Cat. 1 / Cat. 2
Oxidation Induction Time (min.)	ASTM D-3895	1/Batch	min.	100
Tensile Properties (min.) (2)	ASTM D-6693	Every 2 rolls		
Strength at Yield			kN/m	22
Elongation at Yield			%	13
Strength at Break			kN/m	42
Elongation at Break			%	700
Tear Resistance	ASTM D-1004	Every 6 rolls	N	187
Puncture Resistance ASTM	ASTM D-4833	Every 6 rolls	N	540
Dimensional Stability	ASTM D-1204	Every 6 rolls	%	± 2
Stress Crack Resistance (SP-NCTL)	ASTM D-5397	1/Batch	hr.	300
Oven Aging	ASTM D-5721	Per formulation	%	55
UV Resistance	GRI-GM-11	Per formulation	%	50
<b>SUPPLY SPECIFICATIONS</b> <i>(Roll dimensions may vary ±1%)</i>				
Roll Dimension - Width			m	6.8
Roll Dimension - Length			m	158.5
Area (Surface/Roll)			m <sup>2</sup>	1,078

### NOTES

1. Testing frequency based on standard roll dimensions and one batch is approximately 180,000 lbs (or one railcar).
2. Machine Direction (MD) and Cross Machine Direction (XMD or TD) average values should be on the basis of 5 specimens each direction.

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