



TECHNICAL DATA SHEET

Geomembrane LLDPE Textured DS ⁽³⁾

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PROPERTY	TEST METHOD	FREQUENCY ⁽¹⁾	UNIT Metric	Solmax 860T- 2000
Thickness (min. avg.)	ASTM D-5994	Every roll	mm	1.425
Lowest individual for 8 out of 10 values			mm	1.35
Lowest individual for 10 out of 10 values			mm	1.275
Asperity Height (ave.)	GRI-GM-12	Every roll	mm	0.25
Resin Density	ASTM D-1505	1/Batch	g/cc	< 0.926
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	< 0.939
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 Break			kN/m	23
Elongation at Break			%	400
2% Modulus	ASTM D-5323	Per formulation	kN/m	630
Tear Resistance	ASTM D-1004	Every 6 rolls	N	160
Puncture Resistance ASTM	ASTM D-4833	Every 6 rolls	N	373
Dimensional Stability	ASTM D-1204	Every 6 rolls	%	± 2
Multi-Axial Tensile	ASTM D-5617	Per formulation	%	30
Oven Aging	ASTM D-5721	Per formulation	%	35
UV Resistance	GRI-GM-11	Per formulation	%	35
SUPPLY SPECIFICATIONS <i>(Roll dimensions may vary ±1%)</i>				
Roll Dimension - Width			m	6.71
Roll Dimension - Length			m	158.5
Area (Surface/Roll)			m ²	1,064

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.
3. Of 10 readings; 8 out of 10 must be >7 mils (0.18 mm), and lowest individual reading must be >5 mils (0.13 mm).

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

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