

Solmax International Inc., 2801 Boul. Marie-Victorin, Varennes, Qc, Canada, J3X 1P7
Tel.: (450) 929-1234 Fax: (450) 929-2550 www.solmax.com

PROPERTY	TEST METHOD	FREQUENCY ⁽¹⁾	UNIT Metric	Solmax 860W-2000	Solmax 880W-2000	Solmax 900W-2000
SPECIFICATIONS						
Thickness (min. avg.)	ASTM D-5199	Every roll	mm	1.50	2.00	2.50
Thickness (min.)	ASTM D-5199	Every roll	mm	1.35	1.80	2.25
Resin Density	ASTM D-1505	1/Batch	g/cc	< 0.926	< 0.926	< 0.926
Melt Index - 190/2.16 (max.)	ASTM D-1238	1/Batch	g/10 min	1.0	1.0	1.0
Sheet Density (8)	ASTM D-1505	Every 2 rolls	g/cc	≤ 0.939	≤ 0.939	≤ 0.939
Carbon Black Content (9)	ASTM D-4218	Every 2 rolls	%	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0
Carbon Black Dispersion	ASTM D-5596	Every 6 rolls	Category	Cat. 1 / Cat. 2	Cat. 1 / Cat. 2	Cat. 1 / Cat. 2
OIT - standard (avg.)	ASTM D-3895	1/Batch	min	100	100	100
Tensile Properties (min. avg) (2)	ASTM D-6693	Every 2 rolls				
Strength at Break			kN/m	40	56	66
Elongation at Break			%	800	800	800
2% Modulus (max.)	ASTM D-5323	Per formulation	kN/m	630	840	1050
Tear Resistance (min. avg.)	ASTM D-1004	Every 6 rolls	N	150	200	250
Puncture Resistance (min. avg.)	ASTM D-4833	Every 6 rolls	N	408	547	620
Dimensional Stability	ASTM D-1204	Certification	%	± 2	± 2	± 2
Multi-Axial Tensile (min.)	ASTM D-5617	Per formulation	%	30	30	30
Oven Aging - % retained after 90 days	ASTM D-5721	Per formulation (5)				
STD OIT (min. avg.)	ASTM D-3895		%	35	35	35
HP OIT (min. avg.)	ASTM D-5885		%	60	60	60
UV Resistance - % retained after 1600 hr	GRI-GM-11	Per formulation (5)				
HP-OIT (min. avg.)	ASTM D-5885		%	35	35	35
SUPPLY SPECIFICATIONS (Roll dimensions may vary ±1%)						
Roll Dimension - Width	-		m	6.80	6.80	6.80
Roll Dimension - Length	-		m	158.5	121.9	97.5
Area (Surface/Roll)	-		m ²	1077.8	828.9	663.0
Color (one side) (4)	-	-		White	White	White

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.
4. Smooth edge may not have the same consistent shade of color as the membrane itself. The colored layer may cause the carbon black content results to be higher than 3%.
5. Certified by black formulation on geomembrane roll or molded plaque.
8. Correlation table is available for ASTM D792 vs ASTM D1505. Both methods give the same results.
9. Correlation table is available for ASTM D1603 vs ASTM D4218. Both methods give the same results.

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

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PROPERTY	TEST METHOD	FREQUENCY ⁽¹⁾	UNIT Metric	Solmax 860WST-2000	Solmax 880WST-2000	Solmax 900WST-2000
SPECIFICATIONS						
Nominal Thickness	-	-	mm	1.50	2.00	2.50
Thickness (min. avg.)	ASTM D-5994	Every roll	mm	1.43	1.90	2.38
Lowest individual for 8 out of 10 values			mm	1.35	1.80	2.25
Lowest individual for 10 out of 10 values			mm	1.28	1.70	2.13
Asperity Height (min. avg.) (3)	ASTM D-7466	Every roll	mm	0.40	0.40	0.40
Resin Density	ASTM D-1505	1/Batch	g/cc	< 0.926	< 0.926	< 0.926
Melt Index - 190/2.16 (max.)	ASTM D-1238	1/Batch	g/10 min	1.0	1.0	1.0
Sheet Density (8)	ASTM D-1505	Every 2 rolls	g/cc	≤ 0.939	≤ 0.939	≤ 0.939
Carbon Black Content (9)	ASTM D-4218	Every 2 rolls	%	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0
Carbon Black Dispersion	ASTM D-5596	Every 6 rolls	Category	Cat. 1 / Cat. 2	Cat. 1 / Cat. 2	Cat. 1 & Cat. 2
OIT - standard (avg.)	ASTM D-3895	1/Batch	min	100	100	100
Tensile Properties (min. avg.) (2)	ASTM D-6693	Every 2 rolls				
Strength at Break			kN/m	23	30	26
Elongation at Break			%	400	400	250
2% Modulus (max.)	ASTM D-5323	Per formulation	kN/m	630	840	1050
Tear Resistance (min. avg.)	ASTM D-1004	Every 6 rolls	N	160	220	250
Puncture Resistance (min. avg.)	ASTM D-4833	Every 6 rolls	N	373	495	500
Dimensional Stability	ASTM D-1204	Certification	%	± 2	± 2	± 2
Multi-Axial Tensile (min.)	ASTM D-5617	Per formulation	%	30	30	30
Oven Aging - % retained after 90 days	ASTM D-5721	Per formulation (5)				
STD OIT (min. avg.)	ASTM D-3895		%	35	35	35
HP OIT (min. avg.)	ASTM D-5885		%	60	60	60
UV Resistance - % retained after 1600 hr	GRI-GM-11	Per formulation (5)				
HP-OIT (min. avg.)	ASTM D-5885		%	35	35	35
SUPPLY SPECIFICATIONS (Roll dimensions may vary ±1%)						
Roll Dimension - Width	-	-	m	6.80	6.80	6.80
Roll Dimension - Length	-	-	m	164.6	121.9	97.5
Area (Surface/Roll)	-	-	m ²	1119.3	828.9	663
Color (one side) (4)	-	-		White	White	White



TECHNICAL DATA SHEET

Solmax LLDPE Reflective Single-Sided Textured - Metric Values

Solmax International Inc., 2801 Boul. Marie-Victorin, Varennes, Qc, Canada, J3X 1P7
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PROPERTY	TEST METHOD	FREQUENCY ⁽¹⁾	UNIT Metric	Solmax 860WST-2000	Solmax 880WST-2000	Solmax 900WST-2000
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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. Lowest individual and 8 out of 10 readings as per GRI-GM13 / 17, latest version.
4. Smooth edge may not have the same consistent shade of color as the membrane itself. The colored layer may cause the carbon black content results to be higher than 3%.
5. Certified by black formulation on geomembrane roll or molded plaque.
8. Correlation table is available for ASTM D792 vs ASTM D1505. Both methods give the same results.
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Melt Index - 190/2.16 (max.)	ASTM D-1238	1/Batch	g/10 min	1.0	1.0	1.0
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Carbon Black Content (9)	ASTM D-4218	Every 2 rolls	%	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0
Carbon Black Dispersion	ASTM D-5596	Every 6 rolls	Category	Cat. 1 & Cat. 2	Cat. 1 / Cat. 2	Cat. 1 / Cat. 2
OIT - standard (avg.)	ASTM D-3895	1/Batch	min	100	100	100
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3. Lowest individual and 8 out of 10 readings as per GRI-GM13 / 17, latest version.
4. Black or grey spots may be visible on the textured surface. Smooth edge may not have the same consistent shade of color as the membrane itself. The colored layer may cause the carbon black content results to be higher than 3%.
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