

PROPERTY	TEST METHOD	FREQUENCY <sup>(1)</sup>	UNIT Metric	Solmax 830-2000	Solmax 840-2000	Solmax 860-2000	Solmax 880-2000	Solmax 900-2000
<b>SPECIFICATIONS</b>								
Thickness (min. avg.)	ASTM D-5199	Every roll	mm	0.75	1.00	1.50	2.00	2.50
Thickness (min.)	ASTM D-5199	Every roll	mm	0.675	0.90	1.35	1.80	2.25
Resin Density	ASTM D-1505	1/Batch	g/cc	< 0.926	< 0.926	< 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	1.0	1.0
Sheet Density (8)	ASTM D-1505	Every 2 rolls	g/cc	≤ 0.939	≤ 0.939	≤ 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	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	Cat. 1 / Cat. 2	Cat. 1 / Cat. 2
OIT - standard (avg.)	ASTM D-3895	1/Batch	min	100	100	100	100	100
Tensile Properties (min. avg) (2)	ASTM D-6693	Every 2 rolls						
Strength at Break			kN/m	20	28	40	56	66
Elongation at Break			%	800	800	800	800	800
2% Modulus (max.)	ASTM D-5323	Per formulation	kN/m	315	420	630	840	1050
Tear Resistance (min. avg.)	ASTM D-1004	Every 6 rolls	N	70	100	150	200	250
Puncture Resistance (min. avg.)	ASTM D-4833	Every 6 rolls	N	200	276	408	547	620
Dimensional Stability	ASTM D-1204	Certification	%	± 2	± 2	± 2	± 2	± 2
Multi-Axial Tensile (min.)	ASTM D-5617	Per formulation	%	30	30	30	30	30
Oven Aging - % retained after 90 days	ASTM D-5721	Per formulation						
STD OIT (min. avg.)	ASTM D-3895		%	35	35	35	35	35
HP OIT (min. avg.)	ASTM D-5885		%	60	60	60	60	60
UV Resistance - % retained after 1600 hr	GRI-GM-11	Per formulation						
HP-OIT (min. avg.)	ASTM D-5885		%	35	35	35	35	35
<b>SUPPLY SPECIFICATIONS</b> (Roll dimensions may vary ±1%)								
Roll Dimension - Width	-		m	6.80	6.8	6.80	6.80	6.80
Roll Dimension - Length	-		m	304.8	237.7	158.5	121.9	97.5
Area (Surface/Roll)	-		m <sup>2</sup>	2072.6	1616.4	1077.8	828.9	663.0

### 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.
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.

\* The information contained herein is provided for reference purposes only and is not intended as a warranty of guarantee. Final determination of suitability for use contemplated is the sole responsibility of the user. SOLMAX assumes no liability in connection with the use of this information.

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 <sup>(1)</sup>	UNIT Metric	Solmax 830ST-2000	Solmax 840ST-2000	Solmax 860ST-2000	Solmax 880ST-2000	Solmax 900ST-2000
<b>SPECIFICATIONS</b>								
Nominal Thickness	-	-	mm	0.75	1.00	1.50	2.00	2.50
Thickness (min. avg.)	ASTM D-5994	Every roll	mm	0.71	0.95	1.43	1.90	2.38
Lowest individual for 8 out of 10 values			mm	0.675	0.90	1.35	1.80	2.25
Lowest individual for 10 out of 10 values			mm	0.638	0.85	1.28	1.70	2.13
Asperity Height (min. avg.) (3)	ASTM D-7466	Every roll	mm	0.40	0.40	0.40	0.40	0.40
Resin Density	ASTM D-1505	1/Batch	g/cc	< 0.926	< 0.926	< 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	1.0	1.0
Sheet Density (8)	ASTM D-1505	Every 2 rolls	g/cc	≤ 0.939	≤ 0.939	≤ 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	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	Cat. 1 / Cat.2	Cat. 1 & Cat. 2
OIT - standard (avg.)	ASTM D-3895	1/Batch	min	100	100	100	100	100
Tensile Properties (min. avg) (2)	ASTM D-6693	Every 2 rolls						
Strength at Break			kN/m	9	17.5	23	30	26
Elongation at Break			%	250	400	400	400	250
2% Modulus (max.)	ASTM D-5323	Per formulation	kN/m	370	420	630	840	1050
Tear Resistance (min. avg.)	ASTM D-1004	Every 6 rolls	N	70	111	160	220	250
Puncture Resistance (min. avg.)	ASTM D-4833	Every 6 rolls	N	150	250	373	495	500
Dimensional Stability	ASTM D-1204	Certification	%	± 2	± 2	± 2	± 2	± 2
Multi-Axial Tensile (min.)	ASTM D-5617	Per formulation	%	30	30	30	30	30
Oven Aging - % retained after 90 days	ASTM D-5721	Per formulation						
STD OIT (min. avg.)	ASTM D-3895		%	35	35	35	35	35
HP OIT (min. avg.)	ASTM D-5885		%	60	60	60	60	60
UV Resistance - % retained after 1600 hr	GRI-GM-11	Per formulation						
HP-OIT (min. avg.)	ASTM D-5885		%	35	35	35	35	35
<b>SUPPLY SPECIFICATIONS</b> (Roll dimensions may vary ±1%)								
Roll Dimension - Width	-		m	6.80	6.80	6.80	6.80	6.80
Roll Dimension - Length	-		m	304.8	237.7	164.6	121.9	97.5
Area (Surface/Roll)	-		m <sup>2</sup>	2072.6	1616.4	1119.3	828.9	663



# TECHNICAL DATA SHEET

## Solmax LLDPE 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 <sup>(1)</sup>	UNIT Metric	Solmax 830ST-2000	Solmax 840ST-2000	Solmax 860ST-2000	Solmax 880ST-2000	Solmax 900ST-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.
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.

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PROPERTY	TEST METHOD	FREQUENCY <sup>(1)</sup>	UNIT Metric	Solmax 830T-2000	Solmax 840T-2000	Solmax 860T-2000	Solmax 880T-2000	Solmax 900T-2000
<b>SPECIFICATIONS</b>								
Nominal Thickness	-	-	mm	0.75	1.00	1.50	2.00	2.50
Thickness (min. avg.)	ASTM D-5994	Every roll	mm	0.71	0.95	1.43	1.90	2.38
Lowest individual for 8 out of 10 values			mm	0.68	0.90	1.35	1.80	2.25
Lowest individual for 10 out of 10 values			mm	0.64	0.85	1.28	1.70	2.13
Asperity Height (min. avg.) (3)	ASTM D-7466	Every roll	mm	0.40	0.40	0.40	0.40	0.40
Resin Density	ASTM D-1505	1/Batch	g/cc	< 0.926	< 0.926	< 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	1.0	1.0
Sheet Density (8)	ASTM D-1505	Every 2 rolls	g/cc	≤ 0.939	≤ 0.939	≤ 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	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	Cat. 1 / Cat. 2	Cat. 1 / Cat. 2
OIT - standard (avg.)	ASTM D-3895	1/Batch	min	100	100	100	100	100
Tensile Properties (min. avg) (2)	ASTM D-6693	Every 2 rolls						
Strength at Break			kN/m	9	17.5	23	30	26
Elongation at Break			%	250	400	400	400	250
2% Modulus (max.)	ASTM D-5323	Per formulation	kN/m	315	420	630	840	1050
Tear Resistance (min. avg.)	ASTM D-1004	Every 6 rolls	N	71	111	160	220	250
Puncture Resistance (min. avg.)	ASTM D-4833	Every 6 rolls	N	150	250	373	495	500
Dimensional Stability	ASTM D-1204	Certification	%	± 2	± 2	± 2	± 2	± 2
Multi-Axial Tensile (min.)	ASTM D-5617	Per formulation	%	30	30	30	30	30
Oven Aging - % retained after 90 days	ASTM D-5721	Per formulation						
STD OIT (min. avg.)	ASTM D-3895		%	35	35	35	35	35
HP OIT (min. avg.)	ASTM D-5885		%	60	60	60	60	60
UV Resistance - % retained after 1600 hr	GRI-GM-11	Per formulation						
HP-OIT (min. avg.)	ASTM D-5885		%	35	35	35	35	35
<b>SUPPLY SPECIFICATIONS</b> (Roll dimensions may vary ±1%)								
Roll Dimension - Width	-		m	6.80	6.80	6.80	6.80	6.80
Roll Dimension - Length	-		m	304.8	237.7	164.6	121.9	97.5
Area (Surface/Roll)	-		m <sup>2</sup>	2072.6	1616.4	1119.3	828.9	663



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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.
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