

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 840-3100	Solmax 860-3100	Solmax 880-3100
<b>SPECIFICATIONS</b>						
Thickness (min. avg.)	ASTM D-5199	Every roll	mm	1.00	1.50	2.00
Thickness (min.)	ASTM D-5199	Every roll	mm	0.90	1.35	1.80
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	140	140	140
HPOIT - High Pressure (avg)	ASTM D-5885	Per formulation	min	500	550	550
Tensile Properties (min. avg) (2)	ASTM D-6693	Every 2 rolls				
Strength at Break			kN/m	29	42	56
Elongation at Break			%	900	900	900
Tear Resistance (min. avg.)	ASTM D-1004	Every 6 rolls	N	100	150	200
Puncture Resistance (min. avg.)	ASTM D-4833	Every 6 rolls	N	311	444	578
Dimensional Stability	ASTM D-1204	Certification	%	± 2	± 2	± 2
Multi-Axial Tensile (min.)	ASTM D-5617	Per formulation	%	90	90	90
Oven Aging - % retained after 90 days	ASTM D-5721	Per formulation				
HP OIT (min. avg.)	ASTM D-5885		%	80	80	80
UV Resistance - % retained after 1600 hr	GRI-GM-11	Per formulation				
HP-OIT (min. avg.)	ASTM D-5885		%	60	60	60
<b>SUPPLY SPECIFICATIONS</b> (Roll dimensions may vary ±1%)						
Roll Dimension - Width	-		m	6.80	6.80	6.80
Roll Dimension - Length	-		m	237.7	158.5	121.9
Area (Surface/Roll)	-		m <sup>2</sup>	1616.4	1077.8	828.9

**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.

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PROPERTY	TEST METHOD	FREQUENCY <sup>(1)</sup>	UNIT Metric	Solmax 840ST-3100	Solmax 860ST-3100	Solmax 880ST-3100
<b>SPECIFICATIONS</b>						
Thickness (min. avg.)	ASTM D-5994	Every roll	mm	1.00	1.50	2.00
Thickness (min.)	ASTM D-5994	Every roll	mm	0.90	1.35	1.80
Asperity Height (min. avg.) (3)	ASTM D-7466	Every roll	mm	0.45	0.45	0.45
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	140	140	140
HPOIT - High Pressure (avg)	ASTM D-5885	Per formulation	min	550	550	550
Tensile Properties (min. avg) (2)	ASTM D-6693	Every 2 rolls				
Strength at Break			kN/m	20	29	39
Elongation at Break			%	450	500	500
Tear Resistance (min. avg.)	ASTM D-1004	Every 6 rolls	N	111	169	222
Puncture Resistance (min. avg.)	ASTM D-4833	Every 6 rolls	N	289	422	556
Dimensional Stability	ASTM D-1204	Certification	%	± 2	± 2	± 2
Multi-Axial Tensile (min.)	ASTM D-5617	Per formulation	%	60	60	60
Oven Aging - % retained after 90 days	ASTM D-5721	Per formulation				
HP OIT (min. avg.)	ASTM D-5885		%	80	80	80
UV Resistance - % retained after 1600 hr	GRI-GM-11	Per formulation				
HP-OIT (min. avg.)	ASTM D-5885		%	60	60	60
<b>SUPPLY SPECIFICATIONS</b> (Roll dimensions may vary ±1%)						
Roll Dimension - Width	-		m	6.80	6.80	6.71
Roll Dimension - Length	-		m	237.7	164.6	121.9
Area (Surface/Roll)	-		m <sup>2</sup>	1616.4	1119.3	817.9

### 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. ASTM D7466 is identical to GRI-GM12.
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 840T-3100	Solmax 860T-3100	Solmax 880T-3100
<b>SPECIFICATIONS</b>						
Thickness (min. avg.)	ASTM D-5994	Every roll	mm	1.00	1.50	2.00
Thickness (min.)	ASTM D-5994	Every roll	mm	0.90	1.35	1.80
Asperity Height (min. avg.) (3)	ASTM D-7466	Every roll	mm	0.45	0.45	0.45
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	140	140	140
HPOIT - High Pressure (avg)	ASTM D-5885	Per formulation	min	550	550	550
Tensile Properties (min. avg) (2)	ASTM D-6693	Every 2 rolls				
Strength at Break			kN/m	20	29	39
Elongation at Break			%	400	450	500
Tear Resistance (min. avg.)	ASTM D-1004	Every 6 rolls	N	111	169	222
Puncture Resistance (min. avg.)	ASTM D-4833	Every 6 rolls	N	289	422	556
Dimensional Stability	ASTM D-1204	Certification	%	± 2	± 2	± 2
Multi-Axial Tensile (min.)	ASTM D-5617	Per formulation	%	60	60	60
Oven Aging - % retained after 90 days	ASTM D-5721	Per formulation				
HP OIT (min. avg.)	ASTM D-5885		%	80	80	80
UV Resistance - % retained after 1600 hr	GRI-GM-11	Per formulation				
HP-OIT (min. avg.)	ASTM D-5885		%	60	60	60
<b>SUPPLY SPECIFICATIONS</b> (Roll dimensions may vary ±1%)						
Roll Dimension - Width	-		m	6.80	6.80	6.71
Roll Dimension - Length	-		m	237.7	158.5	121.9
Area (Surface/Roll)	-		m <sup>2</sup>	1616.4	1077.8	817.9

- NOTES**
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