SOLMAX

TECHNICAL DATA SHEET

Solmax LLDPE Reflective Smooth - Imperial Values

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 Imperial	Solmax 860W-1000	Solmax 880W-1000	Solmax 900W-1000
SPECIFICATIONS						
Thickness (min. avg.)	ASTM D-5199	Every roll	mils	60.0	80.0	100.0
Thickness (min.)	ASTM D-5199	Every roll	mils	54.0	72.0	90.0
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			ppi	228	320	380
Elongation at Break			%	800	800	800
2% Modulus (max.)	ASTM D-5323	Per formulation	ppi	3,600	4,800	6,000
Tear Resistance (min. avg.)	ASTM D-1004	Every 6 rolls	lbf	34	45	55
Puncture Resistance (min. avg.)	ASTM D-4833	Every 6 rolls	lbf	92	123	140
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	-		ft	22.3	22.3	22.3
Roll Dimension - Length	-		ft	520	400	320
Area (Surface/Roll)	-		sf	11,596	8,920	7,136
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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SOLMAX

TECHNICAL DATA SHEET

Solmax LLDPE Reflective Single-Sided Textured - Imperial Values

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 Imperial	Solmax 860WST-1000	Solmax 880WST-1000	Solmax 900WST-1000
SPECIFICATIONS						
Nominal Thickness	-	-	mils	60.0	80.0	100.0
Thickness (min. avg.)	ASTM D-5994	Every roll	mils	57.0	76.0	95.0
Lowest individual for 8 out of 10 values			mils	54.0	72.0	90.0
Lowest individual for 10 out of 10 values			mils	51.0	68.0	85.0
Asperity Height (min. avg.) (3)	ASTM D-7466	Every roll	mils	16	16	16
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			ppi	132	176	150
Elongation at Break			%	400	400	400
2% Modulus (max.)	ASTM D-5323	Per formulation	ppi	3,600	4,800	6,000
Tear Resistance (min. avg.)	ASTM D-1004	Every 6 rolls	lbf	36	50	55
Puncture Resistance (min. avg.)	ASTM D-4833	Every 6 rolls	lbf	84	112	110
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	-		ft	22.3	22.3	22.3
Roll Dimension - Length	-		ft	540	400	265
Area (Surface/Roll)	-		sf	12,042	8,920	5,910
Color (one side) (4)	-	-		White	White	White

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Solmax LLDPE Reflective Single-Sided Textured - Imperial Values

Solmax International Inc., 2801 Boul. Marie-Victorin, Varennes, Qc, Canada, J3X 1P7
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PROPERTY	TEST METHOD	FREQUENCY(1)	UNIT Imperial	Solmax 860WST-1000	Solmax 880WST-1000	Solmax 900WST-1000

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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Thickness (min. avg.)	ASTM D-5994	Every roll	mils	57.0	76.0	95.0
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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
Tensile Properties (min. avg) (2)	ASTM D-6693	Every 2 rolls				
Strength at Break			ppi	132	176	150
Elongation at Break			%	400	400	400
2% Modulus (max.)	ASTM D-5323	Per formulation	ppi	3,600	4,800	6,000
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HP OIT (min. avg.)	ASTM D-5885		%	60	60	60
UV Resistance - % retained after 1600 hr	GRI-GM-11	Per formulation (5)				
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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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