SOLMAX

TECHNICAL DATA SHEET

Solmax HDPE Premium 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 440-3000	Solmax 460-3000	Solmax 480-3000	Solmax 500-3000
SPECIFICATIONS							
Thickness (min. avg.)	ASTM D-5199	Every roll	mils	40.0	60.0	80.0	100.0
Thickness (min.)	ASTM D-5199	Every roll	mils	36.0	54.0	72.0	90.0
Sheet Density (8)	ASTM D-1505	Every 10 rolls	g/cc	≥ 0.940	≥ 0.940	≥ 0.940	≥ 0.940
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
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
OIT - standard (avg.)	ASTM D-3895	1/Batch	min	160	160	160	160
HPOIT - High Pressure (avg)	ASTM D-5885	Per formulation	min	800	800	800	800
Tensile Properties (min. avg) (2)	ASTM D-6693	Every 2 rolls					
Strength at Yield			ppi	84	132	177	212
Elongation at Yield			%	13	13	13	13
Strength at Break			ppi	152	243	327	410
Elongation at Break			%	750	750	750	750
Tear Resistance (min. avg.)	ASTM D-1004	Every 6 rolls	lbf	28	42	58	73
Puncture Resistance (min. avg.)	ASTM D-4833	Every 6 rolls	lbf	85	125	160	195
Dimensional Stability	ASTM D-1204	Certification	%	± 2	± 2	± 2	± 2
Stress Crack Resistance (SP-NCTL) (avg.)	ASTM D-5397	1/Batch	hr	1,000	1,000	1,000	1,000
Multi-Axial Tensile (min. avg.)	ASTM D-5617	Per formulation	%	30	30	30	30
Oven Aging - % retained after 90 days	ASTM D-5721	Per formulation					
HP OIT (min. avg.)	ASTM D-5885		%	80	80	80	80
UV Resistance - % retained after 1600 hr	GRI-GM-11	Per formulation					
HP-OIT (min. avg.)	ASTM D-5885		%	80	80	80	80
SUPPLY SPECIFICATIONS (Roll dimensions may vary ±1%)							
Roll Dimension - Width	-		ft	22.3	22.3	22.3	22.3
Roll Dimension - Length	-		ft	780	520	400	320
Area (Surface/Roll)	-		sf	17,394	11,596	8,920	7,136

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 responsability of the user. SOLMAX assumes no liability in connection with the use of this information.

SOLMAX

TECHNICAL DATA SHEET

Solmax HDPE Premium 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 440ST-3000	Solmax 460ST-3000	Solmax 480ST-3000	Solmax 500ST-3000
SPECIFICATIONS							
Thickness (min. avg.)	ASTM D-5994	Every roll	mils	40.0	60.0	80.0	100.0
Thickness (min.)	ASTM D-5994	Every roll	mils	36.0	54.0	80.0	90.0
Asperity Height (min. avg.) (3)	ASTM D-7466	Every roll	mils	18	18	18	18
Sheet Density (8)	ASTM D-1505	Every 10 rolls	g/cc	≥ 0.940	≥ 0.940	≥ 0.940	≥ 0.940
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
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
OIT - standard (avg.)	ASTM D-3895	1/Batch	min	160	160	160	160
HPOIT - High Pressure (avg)	ASTM D-5885	Per formulation	min		800	800	800
Tensile Properties (min. avg) (2)	ASTM D-6693	Every 2 rolls					
Strength at Yield			ppi	90	132	177	225
Elongation at Yield			%	13	13	13	13
Strength at Break			ppi	75	115	155	230
Elongation at Break			%	200	200	200	200
Tear Resistance (min. avg.)	ASTM D-1004	Every 6 rolls	lbf	32	45	60	75
Puncture Resistance (min. avg.)	ASTM D-4833	Every 6 rolls	lbf	95	130	160	190
Dimensional Stability	ASTM D-1204	Certification	%	± 2	± 2	± 2	± 2
Stress Crack Resistance (SP-NCTL) (avg.)	ASTM D-5397	1/Batch	hr	1,000	1,000	1,000	1,000
Multi-Axial Tensile (min. avg.)	ASTM D-5617	Per formulation	%	15		15	15
Oven Aging - % retained after 90 days	ASTM D-5721	Per formulation					
HP OIT (min. avg.)	ASTM D-5885		%	80	80	80	80
UV Resistance - % retained after 1600 hr	GRI-GM-11	Per formulation					
HP-OIT (min. avg.)	ASTM D-5885		%	80	80	80	80
SUPPLY SPECIFICATIONS (Roll dimensions may vary ±1%)							
Roll Dimension - Width	-		ft	22.3	22.3	22.3	22.3
Roll Dimension - Length	-		ft	780	520	400	320
Area (Surface/Roll)	-		sf	17,394	11,596	8,800	7,040

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Solmax HDPE Premium Single-Sided Textured - Imperial Values

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PROPERTY	TEST METHOD	FREQUENCY[1]	UNIT Imperial	Solmax 440ST-3000	Solmax 460ST-3000	Solmax 480ST-3000	Solmax 500ST-3000

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(1)	UNIT Imperial	Solmax 440T-3000	Solmax 460T-3000	Solmax 480T-3000	Solmax 500T-3000
SPECIFICATIONS							
Thickness (min. avg.)	ASTM D-5994	Every roll	mils	40.0	60.0	80.0	100.0
Thickness (min.)	ASTM D-5994	Every roll	mils	36.0	54.0	72.0	90.0
Asperity Height (min. avg.) (3)	ASTM D-7466	Every roll	mils	18	18	18	18
Sheet Density (8)	ASTM D-1505	Every 10 rolls	g/cc	≥ 0.940	≥ 0.940	≥ 0.940	≥ 0.940
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
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
OIT - standard (avg.)	ASTM D-3895	1/Batch	min	160	160	160	160
HPOIT - High Pressure (avg)	ASTM D-5885	Per formulation	min	800	800	800	800
Tensile Properties (min. avg) (2)	ASTM D-6693	Every 2 rolls					
Strength at Yield			ppi	90	132	177	225
Elongation at Yield			%	13	13	13	13
Strength at Break			ppi	75	115	155	230
Elongation at Break			%	200	200	200	200
Tear Resistance (min. avg.)	ASTM D-1004	Every 6 rolls	lbf	32	45	60	75
Puncture Resistance (min. avg.)	ASTM D-4833	Every 6 rolls	lbf	95	130	160	190
Dimensional Stability	ASTM D-1204	Certification	%	± 2	± 2	± 2	± 2
Stress Crack Resistance (SP-NCTL) (avg.)	ASTM D-5397	1/Batch	hr	1,000	1,000	1,000	1,000
Multi-Axial Tensile (min. avg.)	ASTM D-5617	Per formulation	%	15	15	15	15
Oven Aging - % retained after 90 days	ASTM D-5721	Per formulation					
HP OIT (min. avg.)	ASTM D-5885		%	80	80	80	80
UV Resistance - % retained after 1600 hr	GRI-GM-11	Per formulation					
HP-OIT (min. avg.)	ASTM D-5885		%	80	80	80	80
SUPPLY SPECIFICATIONS (Roll dimensions may vary ±1%)							
Roll Dimension - Width	-		ft	22.3	22.3	22.3	22.3
Roll Dimension - Length	-		ft	780	520	400	320
Area (Surface/Roll)	-		sf	17,394	11,596	8,800	7,040

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PROPERTY	TEST METHOD	FREQUENCY(1)	UNIT Imperial	Solmax 440T-3000	Solmax 460T-3000	Solmax 480T-3000	Solmax 500T-3000

NOTES

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