

Lagoon/Pond Liner Specifications

	Single Scrim RPE (20 mil)	Single Scrim RPE (24 mil)	Double Scrim RPE (24 mil)	Single Scrim RPE (30 mil)
Weight	9.4 OZ/SQ YD (+/- 5%)	11.5 OZ/SQ YD (+/- 5%)	12 OZ/SQ YD (+/- 5%)	15.6 OZ/SQ YD (+/- 5%)
Description	BLACK 12X12 COUNT PER INCH	BLACK 12X12 COUNT PER INCH	BLACK 12X12 COUNT X 2	BLACK 12X12 COUNT PER INCH
Coating Thickness	2.75 MIL EACH (+/- 5%)	3.5 MIL EACH (+/- 5%)	2 MIL EACH (+/- 5%)	5.5 MIL EACH (+/- 5%)
Tensile Strength (Grab Method)	MD 250 Lbs TD 340 Lbs (ASTM D5034)	MD 350 Lbs TD 335 Lbs (ASTM D5034)	MD 380 Lbs TD 370 Lbs (ASTM D5034)	MD 340 Lbs TD 520 Lbs (ASTM D7004)
Tensile Strength (Strip Method)	MD 175 Lbs TD 270 Lbs (ASTM D7003)	MD 245 Lbs TD 250 Lbs (ASTM D7003)		MD 210 Lbs TD 320 Lbs (ASTM D7003)
Tear Strength (Tongue Method)	MD 75 Lbs/Inch TD 75 Lbs/Inch (ASTM D5884)	MD 110 Lbs/Inch TD 110 Lbs/Inch (ASTM D5884)	MD 75 Lbs TD 70 Lbs (ASTM D7003)	MD 45 Lbs/Inch TD 55 Lbs/Inch (ASTM D5884)
Bursting Strength (Mullen)	550 PSI (ASTM D751)	525 PSI (ASTM D751)	750 PSI (ASTM D751)	700 PSI (ASTM D751)
Hydrostatic Resistance	139 PSI (ASTM D751)	425 PSI (ASTM D751)	226 PSI (ASTM D751)	610 PSI (ASTM D751)
Puncture Resistance	140 Lbs (ASTM D4833)	182 Lbs (ASTM D4833)	220 Lbs (ASTM D4833)	200 Lbs (ASTM D4833)
Seam Strength (Shear) min	Seam shear should be >80% of the Strip tensile of the base fabric		Seam should be >80% of the strip tensile of the base fabric	
Seam Strength (Peel) min	4 Lbs/Inch (ASTM D413)		4 Lbs/Inch (ASTM D413)	
Low temp cold crack	-85° F (ASTM D2136)	-85° F (ASTM D2136)	-85° F (ASTM D2136)	-85° F (ASTM D2136)
MVTR	0.40 g/m ² -day (ASTM E96)	0.25 g/m ² – 24hr (0.036 perms)		0.32 g/m ² – 24hr (0.05 perms)
Carbon Black Content	3.6% (ASTM D4218)	3% (ASTM D4218)		3% (ASTM D4218)
UV Resistance	>90% strength retained after 2000 Hrs. (ASTM G-151)	>90% strength after 2000 Hrs. (ASTM G-151)	>90% strength after 2000 Hrs. (ASTM G-151)	>90% strength after 2000 Hrs. (ASTM G-151)
CBR Static Puncture		1157 lb (5127 N) (ASTM D6241)		1481 lb (5658 N) ASTM D6241
Permeability		1.40 x 10 ⁻¹² CM/SEC	1.77 x 10 ⁻¹² CM/SEC	1.87 x 10 ⁻¹² CM/SEC
Dimensional Stability				MD -4.4% TD -1.8% (ASTM D1204)
HP- OIT		1071 minutes		2410 Minutes (ASTM D5885)



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	Single Scrim Laminated LDPE with LLDPE Film (30 mil)	Double Scrim RPE (40 mil)	Double Scrim HDPE w/ LDPE Coating (45 mil)	Reinforced Polypropylene Liner Single Scrim Low Temperature (45 mil)
Weight	14.7 OZ./SQ.YD. (+/-5%)	18.5 OZ./SQ.YD. (+/-5%)	22.5 OZ./SQ.YD. (+/-5%)	11.04 OZ./SQ.YD. (+/-5%)
Description	BLACK 12 X 12 COUNT PER INCH	BLACK 16 X 16 COUNT PER INCH	BLACK 16 X 16 COUNT PER INCH	BLACK 9 X 9 POLYESTER SCRIM
Coating Thickness	2.4 MIL EACH (+/-5%)	2.5 MIL EACH (+/-5%)	5.0 MIL EACH (+/-5%)	13.0 MILS EACH (+/-10%)
Tensile Strength (Grab Method)	MD 410 Lbs TD 400 LBS. (ASTM D7004)	MD 680 Lbs. TD 680 Lbs. (ASTM D5034)	MD 655 Lbs. TD 880 Lbs. (ASTM D7004)	250 LBS/FT (ASTM D 7004)
Tensile Strength (Strip Method)	MD 260 Lbs. TD 260 Lbs. (ASTM D7003)	MD 460 Lbs. TD 460 Lbs. (ASTM D5035)	MD 435 Lbs. TD 565 Lbs. (ASTM D7003)	
Tear Strength (Tongue Method)	MD 79 Lbs. TD 81 Lbs. (ASTM D5884)	MD 140 Lbs. TD 135 Lbs. (ASTM D5884)	MD 105 Lbs. TD 110 Lbs. (ASTM D5884)	WARP 100 Lbs./FT (ASTM D 5884)
Bursting Strength (Mullen)	622 PSI (ASTM D3786)	1300 PSI (ASTM D3786)	1300 PSI (ASTM D751)	
Hydrostatic Resistance	635 PSI (ASTM D751)	685 PSI (ASTM D751)	880PSI (ASTM D751)	450 PSI (ASTM D 751)
Puncture Resistance	195 LBS (ASTM D4833)	350 LBS (ASTM D4833)	365 LBS (ASTM D4833)	120 LBS/FT (ASTM D 4833)
Seam Strength (Shear) min			>80% of the strip tensile value in the direction perp. to the seam. (ASTM D7747)	
Seam Strength (Peel) min			27 LBS INCH (ASTM D413)	
Low temp cold crack	-85° F (ASTM D2136)	-85° F (ASTM D2136)	-85° F (ASTM D2136)	-50° F (ASTM D 2136)
MVTR	0.33 g/m ² - 24hr (0.05 perms) (ASTM E96)	0.31 g/m ² – 24hr (0.04 perms)		
Carbon Black Content	3% (ASTM D4218)	3.1% (ASTM D4218)		
UV Resistance	>90% STRENGTH RETAINED ASTM G-151 AFTER 2000 HRS.	>90% STRENGTH RETAINED AFTER 2000 HRS.	>90% STRENGTH RETAINED AFTER 2000 HRS (ASTM G-154)	>8,000 HRS (ASTM G 155)
CBR Static Puncture	1272 lb (5658 N) (ASTM D6241)	2356 lb (10,461 N)		
Permeability		<2.65 x 10 ⁻¹² CM/SEC (ASTM D4491)	2.32 x 10 ⁻¹² CM/SEC	
Dimensional Stability	MD -2.9% TD -1.0%	MD -3.8% TD -1.8%		
HP- OIT	3048 minutes (ASTM D5885)	3048 min. (ASTM D5885)		

For more complete information on One Clarion products and solutions, visit us on the web at:

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