

PROPERTY	TEST METHOD	FREQUENCY <sup>(1)</sup>	UNIT Imperial	1053219
<b>SPECIFICATIONS</b>				
Nominal Thickness	-	-	mils	60.0
Thickness (min. avg.)	ASTM D-5994	Every roll	mils	57.0
Lowest individual for 8 out of 10 values			mils	54.0
Lowest individual for 10 out of 10 values			mils	51.0
Asperity Height (min. avg.) (3)	ASTM D-7466	Every roll	mils	16
Resin Density	ASTM D-1505	1/Batch	g/cc	> 0.932
Melt Index - 190/2.16 (max.)	ASTM D-1238	1/Batch	g/10 min	1.0
Sheet Density (8)	ASTM D-792	Every 10 rolls	g/cc	≥ 0.940
Carbon Black Content (9)	ASTM D-4218	Every 2 rolls	%	2.0 - 3.0
Carbon Black Dispersion	ASTM D-5596	Every 10 rolls	Category	Cat. 1 & Cat. 2
OIT - standard (avg.)	ASTM D-3895	Per formulation	min	100
Tensile Properties (min. avg.) (2)	ASTM D-6693	Every 2 rolls		
Strength at Yield			ppi	132
Elongation at Yield			%	13
Strength at Break			ppi	132
Elongation at Break			%	150
Tear Resistance (min. avg.)	ASTM D-1004	Every 5 rolls	lbf	45
Puncture Resistance (min. avg.)	ASTM D-4833	Every 5 rolls	lbf	120
Dimensional Stability	ASTM D-1204	Certified	%	± 2
Stress Crack Resistance (SP-NCTL)	ASTM D-5397	1/Batch	hr	500
Oven Aging - % retained after 90 days	ASTM D-5721	Per formulation (5)		
HP OIT (min. avg.)	ASTM D-5885		%	80
UV Resistance - % retained after 1600 hr	GRI-GM-11	Per formulation (5)		
HP-OIT (min. avg.)	ASTM D-5885		%	50
<b>SUPPLY SPECIFICATIONS</b> (Roll dimensions may vary ±1%)				
Roll Dimension - Width	-		ft	22.3
Roll Dimension - Length	-		ft	540
Area (Surface/Roll)	-		sf	12,042
Color (one side) (4)	-	-		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.
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%.
5. Certified by core (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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