

PROPERTY ⁽¹⁾	TEST METHOD	FREQUENCY	UNIT Metric	1115655-31972-1
SPECIFICATIONS				
Nominal Thickness		-	mm	2.50
Thickness (min. avg.)	ISO 9863-1	Every roll	mm	2.50
Thickness (min.)	ISO 9863-1	Every roll	mm	2.25
Asperity Height (min. avg.)	ASTM D7466	Every roll	mm	0.40
Melt Index - 190°C/2.16 kg (max.)	ISO 1133-1	1/Batch	g/10 min	1.0
Geomembrane Density	ISO 1183-1	Every 10 rolls	g/cc	≥ 0.940
Carbon Black Content	ASTM D4218	Every 2 rolls	%	2.0 - 3.0
Carbon Black Dispersion	ASTM D5596	Every 10 rolls	Category	Cat. 1 / Cat. 2
OIT - standard (min. avg.)	ASTM D3895	1/Batch	min	100
Tensile Properties (min. avg.) (2)	ISO 527-3	Every 2 rolls		
Strength at Yield			MPa	16
Elongation at Yield			%	10
Strength at Break			MPa	20
Elongation at Break			%	400
Tear Resistance (min. avg.) (MD/CMD)	ISO 34-1/B	Every 5 rolls	N	330
Puncture Resistance (min. avg.)	ISO 12236	Every 5 rolls	N	6000
Dimensional Stability (12)	DIN 53377	Certified	%	± 2
Stress Crack Resistance (SP-NCTL)	ASTM D5397	1/Batch	hr	500
Oven Aging - % retained after 90 days	ASTM D5721	Per formulation		
STD OIT (min. avg.) (7)	ASTM D3895		%	55
HP OIT (min. avg.) (7)	ASTM D5885		%	80
UV Res. - % retained after 1600 hr	ASTM D7238	Per formulation		
HP-OIT (min. avg.)	ASTM D5885		%	50
Low Temperature Brittleness	ASTM D746	Certified	°C	- 77
SUPPLY SPECIFICATIONS(Roll dimensions may vary ±1%)				
Roll Dimension - Width	-		m	7.00
Roll Dimension - Length	-		m	85.0
Area (Surface/Roll)	-		m ²	595.00

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 (CMD). Type 5; 100 mm/min; lo=50 mm.
7. The manufacturer has the option to select either one of the OIT methods listed to evaluate the antioxidant content in the geomembrane.
12. 120°C, 1 hour.

* All values are nominal test results, except when specified as minimum or maximum.

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