

PROPERTY <sup>(1)</sup>	TEST METHOD	FREQUENCY	UNIT Metric	1019029
<b>SPECIFICATIONS</b>				
Thickness (min. avg.)	ASTM D5199	Every roll	mm	2.00
Thickness (min.)	ASTM D5199	Every roll	mm	1.80
Resin Density	ASTM D1505	One per batch	g/cc	> 0.932
Melt Index - 190°C/2.16 kg (max.)	ASTM D1238	One per batch	g/10 min	1.0
Density	ASTM D792	Every 10 rolls	g/cm <sup>3</sup>	≥ 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	Per formulation	min	100
HP-OIT (min.)	ASTM D5885	Per formulation	min	400
Tensile Properties (min. avg.) (2)	ASTM D6693	Every 2 rolls		
Strength at Yield			kN/m	29
Elongation at Yield			%	13
Strength at Break			kN/m	57
Elongation at Break			%	700
Tear Resistance (min. avg.)	ASTM D1004	Every 5 rolls	N	250
Puncture Resistance (min. avg.)	ASTM D4833	Every 5 rolls	N	695
Dimensional Stability	ASTM D1204	Certified	%	± 2
Stress Crack Resistance (SP-NCTL) (avg.)	ASTM D5397	One per batch	hr	1000
Oven Aging - % retained after 90 days	ASTM D5721	Per formulation		
OIT - Standard (min. avg.)	ASTM D3895		%	55
HP-OIT (min. avg.)	ASTM D5885		%	80
UV Resistance - % retained after 1,600 hr	ASTM D7238	Per formulation		
HP-OIT (min. avg.)	ASTM D5885		%	50
<b>SUPPLY SPECIFICATIONS(Roll dimensions may vary ±1%)</b>				
Roll Dimension - Width	-		m	8.00
Roll Dimension - Length	-		m	105.0
Area (Surface/Roll)	-		m <sup>2</sup>	840.00

### NOTES

- Testing frequency based on standard roll dimensions and one batch is approximately 180,000 lbs (or one railcar).
- Machine Direction (MD) and Cross Machine Direction (XMD or TD) average values should be on the basis of 5 specimens each direction.

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

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