SOLMAX

Technical Data Sheet

HDPE 1.50 mm Conductive Smooth

PROPERTY	TEST METHOD	FREQUENCY (1)	UNIT Metric	1026144
SPECIFICATIONS				
Thickness (min. avg.)	ASTM D5199	Every roll	mm	1.50
Thickness (min.)	ASTM D5199	Every roll	mm	1.35
Resin Density	ASTM D1505	1/Batch	g/cc	> 0.932
Melt Index - 190/2.16 (max.)	ASTM D1238	1/Batch	g/10 min	1.0
Sheet Density	ASTM D792	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 (avg.)(6)	ASTM D3895	Per formulation	min	100
Tensile Properties (min. avg) (2)	ASTM D6693	Every 2 rolls		
Strength at Yield			kN/m	23
Elongation at Yield			%	13
Strength at Break			kN/m	43
Elongation at Break			%	700
Tear Resistance (min. avg.)	ASTM D1004	Every 5 rolls	N	187
Puncture Resistance (min. avg.)	ASTM D4833	Every 5 rolls	N	534
Dimensional Stability	ASTM D1204	Certified	%	± 2
Stress Crack Resistance (SP-NCTL)	ASTM D5397	1/Batch	hr	500
Oven Aging - % retained after 90 days	ASTM D5721	Per formulation		
HP OIT (min. avg.)	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
Volume Resistivity (max.)	ASTM D4496	Every 10 rolls	Ohm•m	10
SUPPLY SPECIFICATIONS(Roll dimensions may vary ±1%)				
Roll Dimension - Width	-		m	7.50
Roll Dimension - Length	-		m	140.0
Area (Surface/Roll)	-		m²	1050.0
Application (10)	-		-	Conductive

NOTES

1. Testing frequency based on standard roll dimensions and one batch is approximately180,000 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.
6. Modified. Samples should be taken on the core layer only.
10. The conductive layer may cause the carbon black content results to be higher than 3%, specified on the data sheet.

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