

F3 Series, 1 mm

Black, Smooth

PROPERTY	TEST METHOD	FREQUENCY ⁽¹⁾	UNIT Metric	1054997
SPECIFICATIONS				
Thickness (Nominal $\pm 10\%$) (11)	ASTM D5199	Every roll	mm	1.00
Resin Density	ASTM D1505	1/Batch	g/cc	< 0.926
Melt Index - 190/2.16 (max.)	ASTM D1238	1/Batch	g/10 min	1.0
Sheet Density (8)	ASTM D792	Every 10 rolls	g/cc	≤ 0.939
Carbon Black Content (9)	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.)	ASTM D3895	Per formulation	min	100
Tensile Properties (min. avg) (2)	ASTM D6693	Every 2 rolls		
Strength at Break			kN/m	23
Elongation at Break			%	800
2% Modulus (max.)	ASTM D5323	Per formulation	kN/m	420
Tear Resistance (min. avg.)	ASTM D1004	Every 5 rolls	N	85
Puncture Resistance (min. avg.)	ASTM D4833	Every 5 rolls	N	215
Dimensional Stability	ASTM D1204	Certified	%	± 2
Multi-Axial Tensile (min.)	ASTM D5617	Per formulation	%	90
Oven Aging - % retained after 90 days	ASTM D5721	Per formulation		
STD OIT (min. avg.)	ASTM D3895		%	35
HP OIT (min. avg.)	ASTM D5885		%	60
UV Res. - % retained after 1600 hr	ASTM D7238	Per formulation		
HP-OIT (min. avg.)	ASTM D5885		%	35
Low Temperature Impact (pass)	ASTM D1790	Per formulation	°C	-70
SUPPLY SPECIFICATIONS(Roll dimensions may vary $\pm 1\%$)				
Roll Dimension - Width	-		m	6.80
Roll Dimension - Length	-		m	237.7
Area (Surface/Roll)	-		m ²	1616.36

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.
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.
11. The minimum average thickness is $\pm 10\%$ of the nominal value.

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

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