

TECHNICAL DATA SHEET

HDPE 1.50 mm Black Smooth

Thickness (min. avg.) Thickness (min.) ASTM D5199 Every roll mm Thickness (min.) Resin Density ASTM D1505 Melt Index - 190°C/2.16 kg (max.) Density ASTM D1238 ASTM D1238 One per batch g/cc Melt Index - 190°C/2.16 kg (max.) ASTM D1238 ASTM D792 Every 10 rolls g/cm³ Carbon Black Content ASTM D4218 Every 2 rolls % Carbon Black Dispersion ASTM D5596 Every 10 rolls Category OIT - Standard (min. avg.) ASTM D3895 One per batch min Tensile Properties (min. avg) (2) ASTM D6693 Every 2 rolls Strength at Yield Elongation at Yield Strength at Break Elongation at Break Elongation at Break ASTM D1004 Every 5 rolls N Puncture Resistance (min. avg.) ASTM D4833 Every 5 rolls N Dimensional Stability ASTM D1204 Certified %	1.50
Thickness (min.) ASTM D5199 Every roll mm ASTM D1505 One per batch g/cc Melt Index - 190°C/2.16 kg (max.) Density ASTM D792 Carbon Black Content Carbon Black Dispersion OIT - Standard (min. avg.) ASTM D3895 ASTM D6693 Strength at Yield Elongation at Break Elongation at Break Every 2 rolls ASTM D6493 Every 2 rolls KN/m KN/m Elongation at Break Elongation at Break Every 2 rolls ASTM D1004 ASTM D1004 Every 5 rolls N Puncture Resistance (min. avg.) ASTM D4833 Every 5 rolls N	
Resin Density Melt Index - 190°C/2.16 kg (max.) Density ASTM D1238 One per batch g/cc g/10 min Density ASTM D792 Every 10 rolls g/cm³ Carbon Black Content ASTM D4218 Every 2 rolls % Carbon Black Dispersion ASTM D5596 Every 10 rolls Category OIT - Standard (min. avg.) ASTM D3895 One per batch min Tensile Properties (min. avg) (2) ASTM D6693 Every 2 rolls Strength at Yield Elongation at Yield Strength at Break Elongation at Break ASTM D1004 Every 5 rolls N Puncture Resistance (min. avg.) ASTM D4833 Every 5 rolls N	
Melt Index - 190°C/2.16 kg (max.) Density Carbon Black Content Carbon Black Dispersion OIT - Standard (min. avg.) ASTM D693 Strength at Yield Elongation at Break Elongation at Break Elongation at Break Tear Resistance (min. avg.) ASTM D1004 ASTM D1004 ASTM D1004 Every 5 rolls g/cm³ Revery 2 rolls Every 10 rolls Category Categ	1.35
Density Carbon Black Content Carbon Black Dispersion OIT - Standard (min. avg.) ASTM D3895 ASTM D6693 Strength at Yield Elongation at Yield Strength at Break Elongation at Break Tear Resistance (min. avg.) ASTM D1004 ASTM D1004 ASTM D1004 Every 5 rolls Every 5 rolls Revery 5 rolls Strength at Strength at Strength at Strength at Break Elongation at Break Tear Resistance (min. avg.) ASTM D1004 ASTM D4833 Every 5 rolls N	>0.932
Carbon Black Content Carbon Black Content Carbon Black Dispersion ASTM D5596 Every 10 rolls Category OIT - Standard (min. avg.) ASTM D3895 One per batch min Tensile Properties (min. avg) (2) ASTM D6693 Every 2 rolls KN/m Elongation at Yield Strength at Break Elongation at Break Tear Resistance (min. avg.) ASTM D1004 ASTM D1004 Every 5 rolls N Puncture Resistance (min. avg.) ASTM D4833 Every 5 rolls N	1.0
Carbon Black Dispersion OIT - Standard (min. avg.) ASTM D3895 One per batch min Tensile Properties (min. avg) (2) Strength at Yield Elongation at Yield Strength at Break Elongation at Break Tear Resistance (min. avg.) ASTM D1004 ASTM D1004 Every 5 rolls N Puncture Resistance (min. avg.) ASTM D4833 Every 5 rolls N	≥ 0.940
OIT - Standard (min. avg.) Tensile Properties (min. avg) (2) Strength at Yield Elongation at Yield Strength at Break Elongation at Break Tear Resistance (min. avg.) Puncture Resistance (min. avg.) ASTM D3895 ASTM D6693 Every 2 rolls kN/m % kN/m kN/m Every 5 rolls N ASTM D1004 ASTM D4833 Every 5 rolls N	2.0 - 3.0
Tensile Properties (min. avg) (2) Strength at Yield Elongation at Yield Strength at Break Elongation at Break Tear Resistance (min. avg.) Puncture Resistance (min. avg.) ASTM D1004 ASTM D4833 Every 2 rolls kN/m kN/m kN/m Every 5 rolls N Every 5 rolls N	at. 1 / Cat. 2
Strength at Yield	100
Elongation at Yield % Strength at Break kN/m Elongation at Break % Tear Resistance (min. avg.) ASTM D1004 Every 5 rolls N Puncture Resistance (min. avg.) ASTM D4833 Every 5 rolls N	
Strength at Break kN/m Elongation at Break % Tear Resistance (min. avg.) ASTM D1004 Every 5 rolls N Puncture Resistance (min. avg.) ASTM D4833 Every 5 rolls N	23
Elongation at Break % Tear Resistance (min. avg.) ASTM D1004 Every 5 rolls N Puncture Resistance (min. avg.) ASTM D4833 Every 5 rolls N	13
Tear Resistance (min. avg.) ASTM D1004 Every 5 rolls N Puncture Resistance (min. avg.) ASTM D4833 Every 5 rolls N	43
Puncture Resistance (min. avg.) ASTM D4833 Every 5 rolls N	700
	187
Dimensional Stability ASTM D1204 Certified %	534
	± 2
Stress Crack Resistance (SP-NCTL) ASTM D5397 One per batch hr	500
Oven Aging - % retained after 90 days ASTM D5721 Per formulation	
OIT - Standard (min. avg.) (7) ASTM D3895 %	55
HP-OIT (min. avg.) (7) ASTM D5885 %	80
UV Resistance - % retained after 1,600 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	8.00
Roll Dimension - Length - m	140.0
Area (Surface/Roll) - m²	1120.0

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.
- 7. The manufacturer has the option to select either one of the OIT methods listed to evaluate the antioxidant content in the geomembrane.
- * All values are nominal test results, except when specified as minimum or maximum.
- * The information contained herein is provided for reference purposes only and is not intended as a warranty or guarantee. Final determination of suitability for use contemplated is the sole responsibility of the user. SOLMAX assumes no liability in connection with the use of this information.

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Page 1 of 1

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