

TECHNICAL DATA SHEET

HDPE 1.50 mm Black Smooth

PROPERTY ₍₁₎	TEST METHOD	FREQUENCY	UNIT Metric	1120267
SPECIFICATIONS				
TESTED PROPERTY	-	-		
Thickness (11)	ISO 9863-1	Every roll	mm	1.50
Density (min.)	ISO 1183-1	Every 10 rolls	g/cm³	0.940
Carbon Black Content	ASTM D4218	Every 10 rolls	%	2.0 - 3.0
Carbon Black Dispersion	ASTM D5596	Every 10 rolls	Category	Cat. 1 / Cat. 2
Tensile Properties (2)	ISO 527-3	Every 5 rolls		
Strength at Yield			MPa	17 (16)
Elongation at Yield			%	11 (10)
Strength at Break			MPa	35 (26)
Elongation at Break			%	800 (700)
Tear Resistance (MD/CMD)	ISO 34-1/B	Every 10 rolls	N	210 (195)
Puncture Resistance	ISO 12236	Every 50 rolls	N	3900 (3500)
Stress Crack Resistance (NCTL)	ASTM D5397	1/Batch	hr	500
Oxidative Induction Time (OIT)	ASTM D3895	Every 50 rolls	min	100
REFERENCE PROPERTY	-	-		
Melt Index - 190°C/5.0 kg (max.)	ISO 1133-1	Per formulation	g/10 min	3.0
Melt Index - 190°C/2.16 kg (max.)	ISO 1133-1	Per formulation	g/10 min	1.0
UV Resistance	ASTM D7238	Per formulation		
% HP-OIT retained after 1600 hr	ASTM D5885		%	50
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
Low Temperature Brittleness	ASTM D746	Certified	°C	- 77
Dimensional Stability (12)	DIN 53377	Certified	%	± 2
Weathering Resistance	EN 12224	Certified		Note 4
Water Tightness	EN 14150	Certified	m³/(m².day)	<10 ⁻⁶
SUPPLY SPECIFICATIONS(Roll dime	ensions may vary ±1%)			
Roll Dimension - Width	-		m	7.50
Roll Dimension - Length	-		m	140.0
Area (Surface/Roll)	-		m²	1050.00

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NOTES

- 1. Testing frequency based on standard roll dimensions.
- 2. Values in brackets are minimum average, the ones in front are nominal. Machine Direction (MD) and Cross Machine Direction (CMD). Type 5; 100 mm/min; lo=50 mm.
- 4. Predicted to be UV-resistant for ≤ 25 years under normal ambient conditions in Europe.
- 7. The manufacturer has the option to select either one of the OIT methods listed to evaluate the antioxidant content in the geomembrane.
- 10. Dispersion only applies to near spherical agglomerates. 9 of 10 views shall be category 1 or 2. No more than 1 view from category 3.
- 11. Minimum average thickness: Nominal -5 %, lowest individual ±5 % related to the actual thickness.
- 12. 120°C, 1 hour.
- * All values unless otherwise noted are nominal values.
- * 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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