



**Technical Data Sheet**  
**MONARFLEX® Blackline 1000**

**Properties:**

The MONARFLEX® Blackline 1000 membrane is a three layer moisture barrier with two layers of blown film laminated together by a coater layer.

MONARFLEX® Blackline 1000				
Composition: Top layer Coater layer Bottom layer	330 micron of black LDPE blown film 330 micron of black LDPE 330 micron of black LDPE blown film			
Colour	Black			
Application	100-150 mm overlapping and either sealed with double-sided butyl tape or welded together.			
Technical data	Unit	Value	Tolerance	Test method
Length	m	25 / 50 / 75 / 100	+1% -0%	EN 1848-2
Width	m	4,00	+/- 2%	EN 1848-2
Thickness	mm	1,00	+/- 10%	EN 1849-2
Weight	g/m <sup>2</sup>	925	+/- 5%	EN 1849-2
Straightness	Pass/Fail	Pass		EN 1848-2
Visible defects	Visible	No visible defects		EN 1850-2
Tensile strength	N/50mm	MD: > 750		EN 12311-2
		CD: > 750		
Elongation	%	MD: > 380		EN 12311-2
		CD: > 430		
Radon transmittance	10 <sup>-9</sup> m/s	7		SP internal test
Radon permeability	10 <sup>-12</sup> m <sup>2</sup> /s	7		SP internal test
Sd value	m	237	±30%	EN 1931
Water vapour transmission	kg/(m <sup>2</sup> .s.)	8,28x10 <sup>-13</sup>	±30%	EN 1931
Nail tear resistance	N	MD: > 200		EN12310-1
		CD: > 200		
Resistance to static loading	kg	≥20		EN 12730, Method B
Impact resistance	mm	≥350 mm		EN 12691, Method A
Bitumen compatibility	Pass/Fail	Pass at 2 kPa		EN 1548 / EN 1928 A
Joint strength, tape	N/50mm	≥50		EN 12317-2
Water tightness to liquid water	Pass/Fail	Pass at 2 kPa		EN1928 A
Durability of water tightness against ageing	Pass/Fail	Pass at 2kPa		EN 1296 / EN 1928 A
Durability of water tightness against chemicals	Pass/Fail	Pass at 2 kPa		EN 1847 / EN 1928 A
<b>Classification</b>	<b>Moisture Barrier Type A – EN 13967</b>			
 		Monarflex sro Továrnská 1, SK 943 03 Stúrovo, Slovakia 06 1162-CPD-0254		