

RhinoMat 1000 Specification

40 Mil (1.01mm) Geomembrane with Surfex Technology

Product data	RhinoMat 1000			
Composition: Top layer Coater layer : Top and Bottom Mid layer	Surfex™-Polyolefin Blend Black LLDPE / LDPE High strength HDPE woven core			
Colour	Black			
Technical data	Unit	Value	Tolerance	Test method
Length	m	25 / 381		
Width	m	1.8 / 3.66		
Thickness	mm	1.01		ASTM D751
Weight (min ave.)	g/m ²	688		ASTM D5261
Strip Tensile strength (MD/CD) (min ave.)	N	1268/1152		ASTM D7003
Strip Tensile Elongation (MD/CD) (min ave.)	%	20/20		ASTM D7003
Tongue Tear MD/CD (Typ)	N	222/222		ASTM D5884
CBR Puncture (min ave)	N	6050		ASTM D6241
Index Pin Puncture-resistance (min ave.)	N	979		ASTM D4833
Hydrostatic Resistance(min ave)	kPa	4875		ASTM D751
Dimensional Stability (%Change ,Max)	%	2.86		ASTM D1204
Water Vapour transmission	g/m ² –day	0.08		ASTM E96
UV Resistance				ASTM D7238
Strength and Elongation retained after 10,000 light hours	%	> 90		ASTM D7003
Response to bending		No Cracking	Pass	GRI –GM16
Grab Tensile strength (MD/CD)	N	2504/1766		ASTM D751
Trapezoidal Tear (MD/CD)	N	325/307		ASTM D4533
Seam Strength (Shear/Peel)	N	734/133		ASTM D7747
Hydraulic Conductivity	Cm/sec	1.0 x 10 ¹⁴		ASTM E96 ('B')
Carbon Black Content	%	>2		ASTM D4218
Accelerated UV Weathering	% @ 10,000hrs	> 90		ASTM G154
Low temperature Brittleness	@-51°C	Pass		ASTM D2136

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