RhinoMat 500 Specification

24 Mil (0.61mm) Geomembrane with Surflex Technology

Product data	RhinoMat 500			
Composition: Top layer Coater layer : Top and Bottom Mid layer	Surflex™-Polyolefin Blend Black LLDPE / LDPE High strength HDPE woven core			
Colour	Black			
Technical data	**Unit**	**Value**	**Tolerance**	**Test method**
Length	m	25 / 610		
Width	m	1.8 / 3.66		
Thickness	mm	0.64		ASTM D751
Weight (min ave.)	g/m^2	405		ASTM D5261
Strip Tensile strength (MD/CD) (min ave.)	N	1179/1019		ASTM D7003
Strip Tensile Elongation (MD/CD) (min ave.)	%	22/21		ASTM D7003
Tongue Tear MD/CD (Typ)	N	222/222		ASTM D5884
CBR Puncture (min ave)	N	5253		ASTM D6241
Index Pin Puncture-resistance (min ave.)	N	818		ASTM D4833
Hydrostatic Resistance(min ave)	kPa	2199		ASTM D751
Dimensional Stability (%Change ,Max)	%	3		ASTM D1204
Water Vapour transmission	g/m^2 –day	0.14		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	1579/1521		ASTM D751
Trapezoidal Tear (MD/CD)	N	280/280		ASTM D4533
Seam Strength (Shear/Peel)	N	356/89		ASTM D7747
Hydraulic Conductivity	Cm/sec	1.0×10^{14}		ASTM E96 ('B')
Carbon Black Content	%	>2		ASTM D4218
Accelerated UV Weathering	% @ 10,000hrs	> 90		ASTM G154
Low temperature Brittleness	@-51^{0}C	Pass		ASTM D2136

April 2019

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