SKAPS TRANSNET™ HDPE GEOCOMPOSITE WITH TN 220 GEONET

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SKAPS TRANSNET™ Geocomposite consists of SKAPS Geonet made from HDPE resin with nonwoven polypropylene geotextile fabric heat bonded on one side or both sides of Geonet.

PROPERTY	TEST METHOD	UNIT	VALUE		QUALIFIER
GEONET					
Thickness	ASTM D 5199	mm	5.08	5.08	MAV(3)
Carbon Black	ASTM D 4218	%	2.0	2.0	MAV
Tensile Strength	ASTM D 7179	N/mm	7.87	7.87	MAV
Melt Flow	ASTM D 1238(2)	g/10 min	1.0	1.0	Maximum
Density	ASTM D 1505	g/cm^3	0.94	0.94	MAV
Transmissivity(1)	ASTM D 4716	m^2/sec	2.0×10^{-3}	2.0×10^{-3}	MAV
GEOCOMPOSITE			**200 g/m²**	**270 g/m²**	
Ply Adhesion	ASTM D 7005	g/cm	178	178	MAV
Transmissivity(1) DS	ASTM D 4716	m^2/sec	**TN 220-2-6**	**TN 220-2-8**	
			1.0×10^{-4}	1.0×10^{-4}	MAV
Transmissivity(1) SS	ASTM D 4716	m^2/sec	**TN 220-1-6**	**TN 220-1-8**	
			1.0×10^{-3}	1.0×10^{-3}	MAV
GEOTEXTILE					
Fabric Weight	ASTM D 5261	g/m^2	200	270	MARV(4)
Grab Tensile	ASTM D 4632	N	711	1001	MARV
Grab Elongation	ASTM D 4632	%	50	50	MARV
Trapezoid Tear	ASTM D 4533	N	289	400	MARV
CBR Puncture	ASTM D 6241	N	2002	2670	MARV
Water Flow(5)	ASTM D 4491	$l/min/m^2$	5093	4075	MARV
Permittivity(5)	ASTM D 4491	sec^{-1}	1.63	1.26	MARV
Permeability(5)	ASTM D 4491	cm/sec	0.30	0.30	MARV
AOS	ASTM D 4751	mm	0.212	0.180	MaxARV

Notes:

(1) Transmissivity measured using water at 21 ± 2 °C (70 ± 4 °F) with a gradient of 0.1 and a confining pressure of 479 kPa between steel plates after 15 minutes. Values may vary with individual labs.
DS - Double Sided, SS - Single Sided

(2) Condition 190/2.16

(3) Minimum average value.

(4) MARV is statistically defined as mean minus two standard deviations and it is the value which is exceeded by 97.5% of all the test data.

(5) At the time of manufacturing. Handling may change these properties.