



TRANSNET® HDPE GEOCOMPOSITE TN 160-1-200 & TN 160-1-270

Transnet® geocomposite consists of Transet® geonet made from HDPE resin with nonwoven polypropylene geotextile fabric heat bonded on one side of the geonet.

Property	Test Method	Unit	Value		Qualifier
Geonet					
Thickness	ASTM D 5199	mm	3.81		MAV ⁽³⁾
Carbon Black	ASTM D 4218	%	2.0		MAV
Tensile Strength	ASTM D 7179	kN/m	5.24		MAV
Compressive Strength	ASTM D 6364	kPa	450		MAV
Melt Flow	ASTM D 1238 ⁽²⁾	g/10 min	1.0		Maximum
Density	ASTM D 1505	g/cm ³	0.94		MAV
Transmissivity ⁽¹⁾	ASTM D 4716	m ² /sec	1.0 x 10 ⁻³		MAV
Composite			200 g/m ²	270 g/m ²	
Ply Adhesion	ASTM D 7005	g/cm	178	178	MAV
Transmissivity ⁽¹⁾	ASTM D 4716	m ² /sec	5.0 x 10 ⁻⁴	5.0 x 10 ⁻⁴	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
UV Resistance	ASTM D4355	Strength Retained %	70 @500 hours	70 @500 hours	MARV

Production Details			Net/Geotextile SS ⁽⁶⁾	Net/Geotextile SS ⁽⁶⁾
Roll Dimensions	Manufacturer	m	3.81 x 94.49	3.81 x 91.44
			Net/Geotextile DS ⁽⁶⁾	Net/Geotextile DS ⁽⁶⁾
Roll Dimensions	Manufacturer	m	3.81 x 83.82	3.81 x 76.20

Notes:

- (1) Transmissivity measured using water at 21 ± 2 °C with a gradient of 0.1 and a confining pressure of 48 kPa between steel plates after 15 minutes. Values may vary with individual labs.
- (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.
- (6) SS = Net with one side of geotextile DS = Net both sides with geotextile.

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