

# TRANSNET® HDPE GEOCOMPOSITE TN 350-1-200 & TN 350-1-270

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	UNITS	VALUE	QUALIFIER	
<b>GEONET</b>					
Thickness	ASTM D 5199	mm	8.38	MAV <sup>(3)</sup>	
Carbon Black	ASTM D 4218	%	2.0	MAV	
Tensile Strength	ASTM D 7179	kN/m	17.5	MAV	
Compressive Strength	ASTM D 6364	kPa	2275	MAV	
Melt Flow	ASTM D 1238 <sup>(2)</sup>	g/10 min	1.0	Maximum	
Density	ASTM D 1505	g/cm <sup>3</sup>	0.94	MAV	
Transmissivity <sup>(1)</sup>	ASTM D 4716	m <sup>2</sup> /sec	9.0 x 10 <sup>-3</sup>	MAV	
<b>COMPOSITE</b>			<b>200 g/m2</b>	<b>270 g/m2</b>	
Ply Adhesion	ASTM D 7005	g/cm	178	178	MAV
Transmissivity <sup>(1)</sup>	ASTM D 4716	m <sup>2</sup> /sec	4.0 x 10 <sup>-3</sup>	4.0 x 10 <sup>-3</sup>	MAV
<b>GEOTEXTILE</b>					
Fabric Weight	ASTM D 5261	g/m <sup>2</sup>	200	270	MARV <sup>(4)</sup>
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 <sup>(5)</sup>	ASTM D 4491	l/min/m2	5093	4075	MARV
Permittivity <sup>(5)</sup>	ASTM D 4491	sec <sup>-1</sup>	1.63	1.26	MARV
Permeability <sup>(5)</sup>	ASTM D 4491	cm/sec	0.30	0.30	MARV
AOS	ASTM D 4751	mm	0.212	0.180	MaxARV
UV Resistance	ASTM D 4355	Strength Retained %	70 @500 hours	70 @500 hours	MARV
<b>PRODUCTION DETAILS</b>			Net/Geotextile SS <sup>(6)</sup>	Net/Geotextile SS <sup>(6)</sup>	
Roll Dimensions	Manufacturer	m	3.81 x 51.82	3.81 x 51.82	
			Net/Geotextile DS <sup>(6)</sup>	Net/Geotextile DS <sup>(6)</sup>	
Roll Dimensions	Manufacturer	m	3.81 x 48.77	3.81 x 45.72	

- Notes:
- (1) Transmissivity measured using water at 21 ± 2 °C with a gradient of 0.1 and a confining pressure of 480 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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