

# TerraTex® GE110

TerraTex® GE110 is a needle-punched nonwoven geotextile made of 100% polypropylene staple fibers, which are formed into a random network for dimensional stability. TerraTex® GE110 resists ultraviolet deterioration, rotting, biological degradation, naturally encountered basics and acids. TerraTex® GE110 conforms to the properties listed as per Table 1-10-2, Regular, of AREMA Manual of Railway Engineering, pg. 1-10-7, (2013)

Unless noted otherwise, all values are minimum average roll values (MARV).

PROPERTY	TEST METHOD	ENGLISH	METRIC
Weight (Typical) <sup>1</sup>	ASTM D5261	<b>10.0 oz/yd<sup>2</sup></b>	<b>334 g/m<sup>2</sup></b>
Grab Tensile	ASTM D4632	<b>175 lbs</b>	<b>0.775 kN</b>
Grab Elongation	ASTM D4632	<b>20 %</b>	<b>20 %</b>
Trapezoid Tear	ASTM D4533	<b>100 lbs</b>	<b>0.444 kN</b>
Pin Puncture Resistance	ASTM D4833	<b>110 lbs</b>	<b>0.485 kN</b>
Mullen Burst	ASTM D3786	<b>400 psi</b>	<b>2,750 kPa</b>
Permittivity <sup>1</sup>	ASTM D4491	<b>0.30 sec<sup>-1</sup></b>	<b>0.30 sec<sup>-1</sup></b>
Permeability <sup>1</sup>	ASTM D4491	<b>0.10 cm/sec</b>	<b>0.10 cm/sec</b>
AOS <sup>1, 2</sup>	ASTM D4751	<b>70 US Std. Sieve</b>	<b>0.212 mm</b>
Planar Transmissivity <sup>3</sup>	ASTM D4761	<b>0.002 ft<sup>2</sup>/min</b>	<b>0.0000031 m<sup>2</sup>/sec</b>
Abrasion Resistance Strength Retained	ASTM D4886	<b>80 %</b>	<b>80 %</b>
UV Resistance	ASTM D4355	<b>70 % @ 500 hrs</b>	<b>70 % @ 500 hrs</b>

<sup>1</sup> At the time of manufacturing. Handling, storage, and shipping may change these properties.

<sup>2</sup> Value represents maximum average roll value.

<sup>3</sup> Transmissivity is measured at Gradient 1.0 and 3.5 psi load with 15-minute seating time between steel plates.

**DISCLAIMER:** Descriptions regarding the products described herein are based solely upon information provided by the manufacturer and are provided for informational purposes only. **NOTHING CONTAINED HEREIN SHOULD BE CONSTRUED AS CREATING AN EXPRESSED OR IMPLIED WARRANTY, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS, EACH OF WHICH IS HEREBY DISCLAIMED. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.** The final determination as to the suitability of any product of Hanes Geo Components in any particular application rests solely with the user. Hanes Geo Components reserves the right to alter or modify its products and descriptions at any time without notice.