

# TerraTex® GE116

TerraTex® GE116 is a needle-punched nonwoven geotextile made of 100% polypropylene staple fibers, which are formed into a random network for dimensional stability. TerraTex® GE116 resists ultraviolet deterioration, rotting, biological degradation, naturally encountered basics and acids. TerraTex® GE116 conforms to the properties listed as per Table 1-10-2, Extra Heavy, 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>16.0 oz/yd<sup>2</sup></b>	<b>543 g/m<sup>2</sup></b>
Grab Tensile	ASTM D4632	<b>350 lbs</b>	<b>1.555 kN</b>
Grab Elongation	ASTM D4632	<b>20 %</b>	<b>20 %</b>
Trapezoid Tear	ASTM D4533	<b>150 lbs</b>	<b>0.665 kN</b>
Pin Puncture Resistance	ASTM D4833	<b>185 lbs</b>	<b>0.820 kN</b>
Mullen Burst	ASTM D3786	<b>620 psi</b>	<b>4,270 kPa</b>
Permittivity <sup>1</sup>	ASTM D4491	<b>0.67 sec<sup>-1</sup></b>	<b>0.67 sec<sup>-1</sup></b>
Permeability <sup>1</sup>	ASTM D4491	<b>0.10 cm/sec</b>	<b>0.10 cm/sec</b>
Water Flow Rate <sup>1</sup>	ASTM D4491	<b>50 gpm/ft<sup>2</sup></b>	<b>50 Lpm/m<sup>2</sup></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>0.006 ft<sup>2</sup>/min</b>	<b>0.0000093 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>

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

2 Value represents maximum average roll value.

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

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