

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) ¹	ASTM D5261	10.0 oz/yd²	334 g/m²
Grab Tensile	ASTM D4632	175 lbs	0.775 kN
Grab Elongation	ASTM D4632	20 %	20 %
Trapezoid Tear	ASTM D4533	100 lbs	0.444 kN
Pin Puncture Resistance	ASTM D4833	110 lbs	0.485 kN
Mullen Burst	ASTM D3786	400 psi	2,750 kPa
Permittivity ¹	ASTM D4491	0.30 sec⁻¹	0.30 sec⁻¹
Permeability ¹	ASTM D4491	0.10 cm/sec	0.10 cm/sec
AOS ^{1,2}	ASTM D4751	70 US Std. Sieve	0.212 mm
Planar Transmissivity ³	ASTM D4761	0.002 ft²/min	0.0000031 m²/sec
Abrasion Resistance Strength Retained	ASTM D4886	80 %	80 %
UV Resistance	ASTM D4355	70 % @ 500 hrs	70 % @ 500 hrs

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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