

TerraTex® HPG-HM38

TerraTex® geotextiles are made up of high tenacity polypropylene yarns. These yarns are woven to form a stable and durable network such that the yarns retain their relative position. They are non-biodegradable and resistant to most soil chemicals, acids, and alkali with a pH range of 3 to 12.

Property	Test Method	English	Metric
Mr Improvement Factor ¹	AASHTO T-307	1.36	1.36
Initial Tensile Stiffness (0.5% Strain XMD) ²	ASTM D-4595	92,000 lbs/ft	1,342 kN/m
Wide Width Tensile (2% Strain XMD) ²	ASTM D-4595	1,040 lbs/ft	15.2 kN/m
Wide Width Tensile (2% Strain MD) ²	ASTM D-4595	620 lbs/ft	9.05 kN/m
Wide Width Tensile (5% Strain XMD) ²	ASTM D-4595	2,300 lbs/ft	33.57 kN/m
Wide Width Tensile (5% Strain MD) ²	ASTM D-4595	1,850 lbs/ft	27.0 kN/m
Cyclic Tensile Modulus @ 2% Permanent Strain: J _{cyclic} MD	ASTM D-7556	68,500 lbs/ft	1,000 kN/m
Cyclic Tensile Modulus @ 2% Permanent Strain: J _{cyclic} XMD	ASTM D-7556	76,500 lbs/ft	1,116 kN/m
Interaction Coefficient ³	ASTM D-6706	0.9	0.9
Permittivity Under Load ⁶	ASTM D-5493	0.5 sec ₋₁	0.5 sec ₋₁
Water Flow Rate Under Load ⁶	ASTM D-5493	35 gal/min/sf	1,426 l/min/sm
Nominal Pore Size 0 ₉₅ ⁵	ASTM D-6767	496 microns	496 microns
Nominal Pore Size 0 ₈₅ ⁵	ASTM D-6767	448 microns	448 microns
Nominal Pore Size 0 ₆₀ ⁵	ASTM D-6767	361 microns	361 microns
Nominal Pore Size 0 ₅₀ ⁵	ASTM D-6767	324 microns	324 microns
Grab Tensile ²	ASTM D-4632	510 x 350 lbs	2.27 x 1.56 kN
Grab Elongation ²	ASTM D-4632	12 x 8 %	12 x 8 %
CBR Puncture ²	ASTM D-6241	1,800 lbs	8.01 kN
Permittivity ^{2,6}	ASTM D-4491	0.9 sec ₋₁	0.9 sec ₋₁
Water Flow Rate ^{2,6}	ASTM D-4491	75 gal/min/sf	3,056 l/min/sm
AOS ^{5,6}	ASTM D-4751	40 US Std. Sieve	0.425 mm
UV Resistance	ASTM D-4355	90% @ 500 hrs % strength retained	90% @ 500 hrs % strength retained

1. Value determined from Composite Geosynthetic-Base Course Artificial Neural Network Model, TRB/NCHRP Project 01-50, "Quantifying the Influence of Geosynthetics on Pavement Performance" (2017), National Academy of Sciences catalog 24841, <http://nap.edu/24841>. Subgrade Mr improvement range 2.4 < CBR < 4.7 (4.6 < Mr < 6.9), 4-inch HMA (300ksi), 10-inch ABC (20ksi), Base Anisotropic Ratio = 0.35, Factor of Safety 1.30.
2. Minimum average
3. Soil-Geosynthetic Interaction Coefficient based on testing conducted by TRI Environmental, Austin, TX
4. 140psf normal load to simulate roadway compression of geotextile porosity, testing conducted by TRI Environmental, Austin, TX
5. Maximum average
6. At the time of manufacturing. Handling, storage, and shipping may change these properties

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