

ES270HP PRODUCT DATA SHEET

Our ES270HP woven geotextile is made of high tenacity monofilament and fibrillated tape polypropylene yarns, which are woven such that the yarns retain their relative position. Produced from first quality raw materials, these geotextiles offer optimum performance for use in reinforcement, stabilization and drainage applications. Our ES270HP resists ultraviolet deterioration, rotting, biological degradation, naturally encountered alkalis and acids. Polypropylene is stable within the pH range of 2 to 13. Our ES270HP is NTPEP listed and meets requirements as per AASHTO Standards.

Properties ¹	Test Method	English MARV ²	Metric MARV ²
MECHANICAL PROPERTIES			
Grab Tensile Strength (MD x CMD)	ASTM D4632	295 lbs x 250 lbs	1.31 kN x 1.112 kN
Grab Elongation (MD x CMD)	ASTM D4632	15% x 15%	15% x 15%
Wide Width Tensile Strength Ultimate (MD x CMD)	ASTM D4595	2640 lbs/ft x 2460 lbs/ft	38.5 kN/m x 35.9 kN/m
Wide Width Tensile Strength @ 5% (MD x CMD)	ASTM D4595	1212 lbs/ft x 1356 lbs/ft	17.9 kN/m x 19.8 kN/m
Wide Width Tensile Strength @ 2% (MD x CMD)	ASTM D4595	480 lbs/ft x 588 lbs/ft	7.0 kN x 8.6 kN
Trapezoidal Tear Strength	ASTM D4533	125 lbs x 125 lbs	0.56 kN x 0.56 kN
CBR Puncture Strength	ASTM D6241	1150 lbs	5.118 kN
HYDRAULIC PROPERTIES			
Permittivity ³	ASTM D4491	0.60 sec ⁻¹	
Water Flow ³	ASTM D4491	40 gpm/ft ²	1630 l/min/m ²
Apparent Opening Size (AOS) ^{3,4}	ASTM D4751	30 US Sieve	0.60 mm
ENDURANCE PROPERTY			
UV Stability	ASTM D4355	80% at 500 hours	
PACKAGING DETAILS			
Roll Width	Measured	15 ft	4.6 m
Roll Length	Measured	300 ft	91.5 m
Roll Area	Measured	500 yd ²	418 m ²
Roll Weight	Measured	240 lbs	109 kg
AASHTO CLASSIFICATION			
M288 Survivability Class		2	
M288 Application ⁵		SP	

NOTE

- The property values listed above are subject to change without notice
- Minimum Average Roll Value (MARV) is calculated as the average minus two standard deviations. Statistically, it yields approximately 97.5% degree of confidence that any samples taken from quality assurance testing will meet or exceed the values described above. All values are MARV unless otherwise noted.
- At time of manufacturing. Handling may change these properties.
- Maximum Average Roll Value
- S/F=Silt Fence, SP=Separation, ST=Stabilization, D=Drainage, E=Erosion Control

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