



GEO 165NWE (Environmental)

GEO 165NWE is a 6 OZ MARV WEIGHT nonwoven needlepunched geotextile made of 100% polypropylene staple filaments. GEO 165NWE is resistant to ultraviolet deterioration, rotting, biological degradation, naturally encountered bases and acids. Polypropylene is stable within a pH range of 2 to 13. GEO 165NWE meets the following M.A.R.V. values:

Property	Test Method	English	Metric
Weight	ASTM D-5261	6 oz/sy	203 g/sm
Tensile Strength	ASTM D-4632	160 lbs	711 N
Elongation @ Break	ASTM D-4632	50%	50%
Thickness	ASTM D-5199	85 mils (at time of manufacture)	2.16 mm (at time of manufacture)
CBR Puncture	ASTM D-6241	450 lbs	2,000 N
Trapezoidal Tear	ASTM D-4533	65 lbs	290 N
Apparent Opening Size	ASTM D-4751	70 US Sieve	0.212 mm
Permittivity	ASTM D-4491	1.63 Sec-1	1.63 Sec-1
Permeability	ASTM D-4491	0.48 cm/sec	0.48 cm/sec
Water Flow Rate	ASTM D-4491	125 g/min/sf	5,080 l/min/sm
UV Resistance @ 500 Hours	ASTM D-4355	70%	70%

Roll Size	Roll Diameter	Area	Weight
15' x 900'	31.0 in	1,500 sqy	620 lbs

* Historical averages (current values not available): Mullen Burst Strength ASTM D3786 is no longer recognized by ASTM D-35 on Geosynthetics as an acceptable test method. Puncture Strength ASTM D4833 is not recognized by AASHTO M288 and has been replaced with CBR Puncture ASTM D6241.

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