



GEO 105NWE (Environmental)

GEO 105NWE is a 4 OZ MARV WEIGHT nonwoven needlepunched geotextile made of 100% polypropylene staple filaments. GEO 105NWE 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 105NWE meets the following M.A.R.V. values:

Property	Test Method	English	Metric
Weight	ASTM D-5261	4 oz/sy	135 g/sm
Tensile Strength	ASTM D-4632	105 lbs	467 N
Elongation @ Break	ASTM D-4632	50%	50%
Thickness	ASTM D-5199	70 mils (at time of manufacture)	1.77 mm (at time of manufacture)
CBR Puncture	ASTM D-6241	305 lbs	1,360 N
Trapezoidal Tear	ASTM D-4533	45 lbs	20 N
Apparent Opening Size	ASTM D-4751	70 US Sieve	0.180 mm
Permittivity	ASTM D-4491	2.00 Sec-1	2.12 Sec-1
Permeability	ASTM D-4491	0.55 cm/sec	0.55 cm/sec
Water Flow Rate	ASTM D-4491	160 g/min/sf	6,518 l/min/sm
UV Resistance @ 500 Hours	ASTM D-4355	70%	70%

Roll Size	Roll Diameter	Area	Weight
15' x 1350'	31.0 in	2,250 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.

This information is provided for reference only and is not intended as a warranty or guarantee. GeoCHEM, Inc. assumes no liability in connection with the use of this information (1/2017).

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