



## GGG 4.5 Nonwoven

GGG 4.5N is a needle-punched nonwoven geotextile made of 100% polypropylene staple fibers, which are formed into a random network for dimensional stability. GGG 4.5N resists ultraviolet deterioration, rotting, biological degradation, naturally encountered basics and acids. Polypropylene is stable within a pH range of 2 to 13. GGG 4.5N meets or exceeds the physical property values listed below:

Property	Test Method	Unit	M.A.R.V
Weight (typical)	ASTM D 5261	oz/sy	4.5
Grab Tensile	ASTM D 4632	lbs	120
Grab Elongation	ASTM D 4632	%	50
Trapezoidal Tear	ASTM D 4533	lbs	50
CBR Puncture	ASTM D 6241	lbs	335
Mullen Burst	ASTM D 3786	psi	230
Permittivity	ASTM D 4491	1/sec	1.8
Water Flow	ASTM D 4491	gpm/sf	120
AOS	ASTM D 4751	US Std Sieve	70
UV Resistance	ASTM D 4355	%/hours	70/500hrs