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Geotextile Product Description Sheet

Style TNS E100

TNS E100 is a nonwoven geotextile produced by needlepunching 100% polypropylene staple fibers in a random network to form a high strength dimensionally stable fabric. The polypropylene fibers are specially formulated to resist ultraviolet light deterioration, and are inert to commonly encountered soil chemicals. The fabric will not rot or mildew, is non-biodegradable, and is resistant to damage from insects and rodents. Polypropylene is stable within a ph range of 2 to 13. TNS E100 conforms to the physical property values listed below:

Fabric Property	Test Method	Units	Minimum Average Roll Value
Weight	ASTM D 5261	oz/sq.yd.	10.0 (340 g/sm)
Thickness*	ASTM D 5199	mils	110 (2.79 mm)
Grab Tensile	ASTM D 4632	lbs.	270 (1.20 kN)
Grab Elongation	ASTM D 4632	%	50
Trap Tear	ASTM D 4533	lbs.	100 (0.44 kN)
Puncture	ASTM D 4833	lbs	160 (.711 kN)
Permittivity*	ASTM D 4491	1/sec	0.7
AOS	ASTM D 4751	U.S. Sieve	100 (.150 mm)
Permeability*	ASTM D 4491	cm/sec	.2
Mullen Burst	ASTM D 3786**	psi	525 (3617 kPa)
Water Flow*	ASTM D 4491	gpm/sqft	50 (2037 1/min/sm)
UV Resistance after 500 hrs.	ASTM D 4355	% Strength Retained	70
Packaging			
Roll Dimensions-Foot			15 x 570
Square Yards Per Roll			950
Estimated Roll Weight-Lbs.			620

* At time of manufacturing, handling may change these properties.

** Modified

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