

Nonwoven Geotextile Property Table – English Values

PROPERTY	TEST METHOD	UNIT	VALUE	311	351	<u>401</u>	<u>451</u>	501	<u>601</u>	701	<u>801</u>	1001	1201	1601
MECHANICAL														
Grab Tensile Strength	ASTM D-4632	lb	MARV	80	95	115	120	150	160	180	205	250	300	380
Grab Elongation	ASTM D-4632	%	MARV	50	50	50	50	50	50	50	50	50	50	50
Puncture Strength	ASTM D-4833	lb	MARV	50	55	65	65	85	85	100	110	150	175	240
Mullen Burst	ASTM D-3786	psi	MARV	150	185	210	230	280	280	330	350	460	580	750
Trapezoidal Tear	ASTM D-4533	lb	MARV	30	40	50	50	60	60	75	85	100	115	150
HYDRAULIC														
Apparent Opening Size (AOS)	ASTM D-4751	US Sieve	MaxARV	50	50	70	70	70	70	70	80	100	100	100
Permittivity	ASTM D-4491	sec ⁻¹	MARV	2.0	2.0	2.0	1.5	1.4	1.3	1.5	1.5	1.2	1.0	0.7
Permeability	ASTM D-4491	cm/sec	MARV	0.22	0.25	0.22	0.22	0.23	0.24	0.34	0.38	0.30	0.29	0.27
Water Flow Rate	ASTM D-4491	gpm/ft ²	MARV	150	150	140	120	115	110	110	110	85	75	50
PHYSICAL														
Mass per Unit Area	ASTM D-5261	oz/yd ²	MARV	2.7	3.0	3.5	4.0	4.8	5.0	5.9	6.5	8.5	10.8	15.0
Thickness	ASTM D-5199	mils	MARV	30	40	50	45	55	60	70	70	100	105	145
ENDURANCE														
UV Resistance	ASTM D-4355	% Retained @ 500 hours	MARV	70	70	70	70	70	70	70	70	70	70	70
STANDARD PACKAGING														
Roll Width	Measured	feet	Typical	15	15	15	15	15	15	15	15	15	15	15
Roll Length	Measured	feet	Typical	360	360	360	360	360	360	360	360	300	300	300
Roll Area	Calculated	yd ²	Typical	600	600	600	600	600	600	600	600	500	500	500

- NOTES**
- The property values listed are effective 2/01/2004 and are subject to change without notice.
 - Values reported in weaker principle direction.
 - All values listed are minimum average roll values (MARV) unless otherwise noted, calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any sample taken during quality assurance testing will exceed the value reported. MaxARV represents typical plus two standard deviations.
 - Underlined styles meet and/or exceed the American Association of State Highway Transportation Officials (AASHTO) M288 specifications.