



National Standard Material Specification (2009 Version)

Woven

Property	UOM	Test Method	Class I	M706	Class II	M706	Class III	M706	Class IV	M706
Minimum Tensile strength	lb	ASTM D 4632	200	370 x 250	120	370 x 250	120	370 x 250	180	370 x 250
Elongation at failure	%	ASTM D 4632	<50	16 x 15						
Minimum puncture	lb	ASTM D 4833*	90	950	60	950	60	950	60	950
Minimum ultraviolet stability	% @500 hrs	ASTM D 4355	70	70	70	70	70	70	70	70
Maximum apparent opening size (AOS)	Sieve size U.S. (mm)	ASTM D 4751	70 (0.212)	70 (0.212)	70 (0.212)	70 (0.212)	70 (0.212)	70 (0.212)	70 (0.212)	70 (0.212)
Minimum permittivity	s-1	ASTM D 4491	0.1	0.28	0.1	0.28	0.1	0.28	0.1	0.28

*Puncture Strength ASTM D4833 is not recognized by AASHTO M288 and has been replaced with CBR Puncture ASTM D6241.

Non Woven

Property	UOM	Standard	Class I	GT170	Class II	GT160	Class III	GT135	Class IV	GT142
Minimum Tensile strength	lb	ASTM D 4632	180	180	120	160	90	90	115	120
Elongation at failure	%	ASTM D 4632	≥50	50	≥50	50	≥50	50	≥50	50
Minimum puncture	lb	ASTM D 4833*	80	475	60	410	40	265	40	340
Minimum ultraviolet stability	%@500 hrs	ASTM D 4355	70	70	70	70	70	70	70	70
Maximum apparent opening size (AOS)	Sieve size U.S. (mm)	ASTM D 4751	40	70 (0.212)	40	70 (0.212)	40	50 (0.300)	40	70 (0.212)
Minimum permittivity	s-1	ASTM D 4491	0.7	1.4	0.7	1.7	0.7	2	0.1	1.7

*ASTM 4833 is no longer a valid test method for puncture strength. It has been replaced by ASTM D 6241

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