



Geotextile Properties for Separation

Class 1 (High Survivability)	Property(1)	Standard	Unit	Elongation <50%	SW315	Elongation >50%	GT180
	Grab Tensile Strength	ASTM D 4632	lb	315	315	203	205
	Trouser Tear Strength	ASTM D 4533	lb	112	120	79	85
	CBR Puncture Strength	ASTM D 6241	lb	630	1000	440	535
	Permittivity	ASTM D 4491	sec-1	0.02	0.05	0.02	1.35
	Apparent Opening Size	ASTM D 4751	in	0.024	0.017	0.024	0.007
	Ultraviolet Stability(2)	ASTM D 7238	%@500 hrs	50	70	50	70
	Class 2 (Moderate Survivability)	Property(1)	Standard	Unit	Elongation <50%	W250	Elongation >50%
Grab Tensile Strength		ASTM D 4632	lb	248	250	158	160
Trouser Tear Strength		ASTM D 4533	lb	90	90	56	60
CBR Puncture Strength		ASTM D 6241	lb	500	900	320	410
Permittivity		ASTM D 4491	sec-1	0.02	0.05	0.02	1.5
Apparent Opening Size		ASTM D 4751	in	0.024	0.017	0.024	0.008
Ultraviolet Stability(2)		ASTM D 7238	%@500 hrs	50	70	50	70
Class 3 (Low Survivability)		Property(1)	Standard	Unit	Elongation <50%	W200	Elongation >50%
	Grab Tensile Strength	ASTM D 4632	lb	180	200	113	120
	Trouser Tear Strength	ASTM D 4533	lb	68	75	41	50
	CBR Puncture Strength	ASTM D 6241	lb	380	700	230	340
	Permittivity	ASTM D 4491	sec-1	0.02	0.05	0.02	1.7
	Apparent Opening Size	ASTM D 4751	in	0.024	0.017	0.024	0.008
	Ultraviolet Stability(2)	ASTM D 7238	%@500 hrs	50	70	50	70

Required Degree of Survivability as a Function of Subgrade Conditions, Construction Equipment and Lift Thickness
(Class 1, 2 and 3 Properties are Given in Table 1 and 2; Class 1 + Properties are Higher than Class 1 but Not Defined at this Time)

Subgrade Condition	Low ground pressure equipment	Medium ground pressure equipment	High ground pressure equipment
Clear ground	Class 3	Class 2	Class 1
<i>Woven</i>	W180	W250	SW315
<i>Non Woven</i>	GT140	GT160	GT180
Clear from obstacles. Weed and small holes exists.	Class 2	Class 1	Class 1+
<i>Woven</i>	W250	SW315	Class 1+
<i>Non Woven</i>	GT160	GT180	
Minimum site preparation	Class 1	Class 1+	
<i>Woven</i>	SW315	Class 1+	Not recommended
<i>Non Woven</i>	GT180		

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