

Product Data Sheet

Sheet GT12a Rev 02 Date 02/2012 ASTM

Fibertex Geotextiles

Geosynthetic Research Institute

GRI Test Method GT 12(a) – ASTM Test Method Version, Original: February 18, 2002. S.I. (Metric) Units

Standard Specification for “Test Methods and Properties for Nonwoven Geotextiles Used as Protection (or Cushioning) Materials”

Table 1 (a) – Required Properties, Test Methods and Values for Geotextiles Used as Geomembrane Protection (or Cushioning) Materials

Property ⁽¹⁾	Test Method ASTM	Unit	Class													
Fibertex Grade			Spec	GT12a Class 340	Spec	GT12a Class 406	Spec	GT12a Class 542	Spec	GT12a Class 812	Spec	GT12a Class 1080	Spec	GT12a Class 1500	Spec	GT12a Class 2000
Mass per unit area	D5261	g/m ²	340	340	406	406	542	542	812	812	1080	1080	1500	1500	2000	2000
Grab Tensile strength	D4632	kN	1.02	1.02	1.33	1.33	1.64	1.64	2.00	2.00	2.25	2.25	2.52	2.52	2.80	2.80
Grab tensile elongation	D4632	%	50	50	50	50	50	50	50	50	50	50	>50	>50	50	50
Trapezoidal tear strength	D4533	kN	0.42	0.42	0.51	0.51	0.64	0.64	0.89	0.89	0.96	0.96	1.13	1.13	1.27	1.27
Puncture (CBR) strength	D6241	kN	3.11	3.11	3.56	3.56	4.00	4.00	4.90	4.90	7.56	7.56	9.08	9.08	10.6	10.6
Puncture (CBR) elongation (Table 2(b))	D6241	mm	38	38	38	38	38	38	38	38	38	38	38	38	38	38
UV resistance ⁽²⁾	D4355	%	70	>70	70	>70	70	>70	70	>70	70	>70	>70	>70	70	>70

Notes: (1) All values are MARV. (2) UV, Evaluation to be on 50 mm strip tensile specimens after 500 hours exposure

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Product Data Sheet

Sheet GT12b Rev 02 Date 02/2012 ISO

Fibertex Geotextiles

GRI Test Method GT 12(b) – ISO Test Method Version, Revision 1: February 8, 2008 S.I. (Metric) Units

Standard Specification for “Test Methods and Properties for Nonwoven Geotextiles Used as Protection (or Cushioning) Materials”

Table 1 (b) – Required Properties, Test Methods and Values for Geotextiles Used as Geomembrane Protection (or Cushioning) Materials

Property ⁽¹⁾	Test Method ISO	Unit	Class													
			Spec	GT12b Class 350	Spec	GT12b Class 400	Spec	GT12b Class 600	Spec	GT12b Class 800	Spec	GT12b Class 1000	Spec	GT12b Class 1500	Spec	GT12b Class 2000
Fibertex Grade			Spec	GT12b Class 350	Spec	GT12b Class 400	Spec	GT12b Class 600	Spec	GT12b Class 800	Spec	GT12b Class 1000	Spec	GT12b Class 1500	Spec	GT12b Class 2000
Mass per unit area	ISO 09864	g/m ²	350	350	400	400	600	600	800	800	1000	1000	1500	1500	2000	2000
Tensile Strength	ISO 10319	kN	16	16	21	21	27	27	32	32	36	36	40	40	45	45
Tensile Strength strain at max load	ISO 10319	%	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Trapezoidal tear strength	ISO 13937	kN	0.42	0.42	0.51	0.51	0.66	0.66	0.89	0.89	0.96	0.96	1.14	1.14	1.32	1.32
Puncture (CBR) strength	ISO 12236	kN	3.1	3.1	3.6	3.6	4.1	4.1	4.90	4.90	7.6	7.6	9.3	9.3	11	11
Puncture (CBR) elongation at max. force	ISO 12236	mm	38	38	38	38	38	38	38	38	38	38	38	38	38	>38
UV resistance ⁽²⁾	EN 12224	%	70	70	70	70	70	70	70	70	70	70	70	70	70	>70

Notes:

(1) All values are MARV

(2) UV, Evaluation to be on 50 mm strip tensile specimens after 500 hours exposure

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