

## Short Fiber Non Woven Geotextile

1	GSM	100	150	200	250	300	350	400	450	500	600	800
2	Mass Deviation Per Unit Area ( % )	-8	-8	-8	-8	-7	-7	-7	-7	-6	-6	-6
3	Thickness (mm)	0.9	1.3	1.7	2.1	2.4	2.7	3	3.3	3.6	4.1	5
4	Width Deviation(%)	-0.5										
5	Elongation At Break	25-100										
6	CBR Brushing Strength (KN)	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.2	4
7	Breaking Strength (KN)	2.5	4.5	6.5	8	9.5	11	12.5	14	16	19	25
8	Vertical Permeability Coefficient (CM/S)	$K \times (10^{-1} - 10^{-3})$ $K=1.0-9.9$										
9	Tearing Strength (KN)	0.08	0.12	0.16	0.2	0.24	0.28	0.33	0.38	0.42	0.46	0.6

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1	GSM	100	150	200	250	300	350	400	450	500	600	800
2	Mass Deviation Per Unit Area ( % )	-8	-8	-8	-8	-7	-7	-7	-7	-6	-6	-6
3	Thickness (mm)	0.9	1.3	1.7	2.1	2.4	2.7	3	3.3	3.6	4.1	5
4	Width Deviation(%)	-0.5										
5	Elongation At Break	40-80										
6	CBR Brushing Strength (KN)	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.2	4
7	Breaking Strength (KN)	2.5	4.5	6.5	8	9.5	11	12.5	14	16	19	25
8	Equivalent Aperture 090 (095)(MM)	0.07-0.2										
9	Vertical Permeability Coefficient (CM/S)	$K \times (10^{-1} - 10^{-3})$ $K=1.0-9.9$										
10	Tearing Strength (KN)	0.08	0.12	0.16	0.2	0.24	0.28	0.33	0.38	0.42	0.46	0.6

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## Long Fiber Non Woven Geotextile

1	GSM	100	150	200	300	400	500	600	800
2	Mass Deviation Per Unit Area ( % )	-6	-6	-6	-5	-5	-4	-4	-4
3	Thickness (mm)	0.8	1.2	1.6	2.2	2.8	3.4	4.2	5.5
4	Width Deviation(%)	-0.5							
5	GSM Deviation (%)	-5							
6	Longitudinal And Transverse Breaking Strength (KN)	4.5	7.5	10	15	20	25	30	40
7	Longitudinal And Transverse Elongation %	40-80							
8	Vertical Permeability Coefficient (CM/S)	$K \times (10^{-1} - 10^{-3})$ $K=1.0-9.9$							
9	Tearing Strength (KN)	0.17	0.28	0.35	0.49	0.63	0.77	0.91	1.25

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## Long Fiber Woven Geotextile

1	GSM	100	150	200	250	300	350	400	450	500	600	800
2	Mass Deviation Per Unit Area ( % )	-6	-6	-6	-5	-5	-5	-5	-5	-4	-4	-4
3	Thickness (mm)	1.2	2.1	2.5	2.8	3.1	3.4	3.8	4.1	4.4	5.2	7.5
4	Width Deviation(%)	-0.5										
5	Elongation At Break	40-80										
6	Breaking Strength (KN)	1.3	2.1	2.8	3.4	4.1	4.7	5.4	6	6.7	8	10.5
7	Equivalent Aperture 090 (095)(MM)	0.07-0.2										
8	Vertical Permeability Coefficient (CM/S)	$K \times (10^{-1} - 10^{-3})$ $K=1.0-9.9$										
9	Tearing Strength (KN)	0.17	0.28	0.35	0.42	0.49	0.56	0.63	0.7	0.77	0.91	1.25

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## GB/T17643-2011 Standard

GB/T17643-2011 Standard										
1	Thickness	0.3	0.5	0.75	1	1.25	1.5	2	2.5	3
2	Density ( g/cm <sup>3</sup> )	0.940								
3	Tensile yield strength N/mm	4	7	10	15	16	20	26	33	40
4	Tensile fracture strength N/mm	6	10	15	20	25	30	40	50	60
5	Yield Elongation %	11								
6	Elongation at break %	600								
7	Right angle tear load N	34	56	84	115	140	170	225	280	340
8	Puncture resistance strength N	72	120	180	240	300	360	480	600	720
9	Carbon black content(%)	2.0-3.0								
10	Carbon black dispersibility	Out of 10 data points, there should be no more than 1 level 3, and levels 4 and 5 are not allowed.								
11	Atmospheric pressure oxidation induction time (OIT) (min)	60								
12	Low temperature impact embrittlement performance	Pass								
13	Dimensional stability ( % )	±2.0								

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## CJ/T 234-2006 Standard (equivalent to US GRI-GM13 standard)

CJ/T 234-2006 Standard (equivalent to US GRI-GM13 standard)								
1	Thickness	0.75	1	1.25	1.5	2	2.5	3
2	Density ( g/cm <sup>3</sup> )	0.939						
3	Tensile yield strength N/mm	11	15	18	22	29	37	44
4	Tensile fracture strength N/mm	20	27	33	40	53	67	80
5	Yield Elongation %	12						
6	Elongation at break %	700						
7	Right angle tear load N	93	125	156	187	249	311	374
8	Puncture resistance strength N	240	320	400	480	640	800	960
9	Resistance to environmental stress cracking	300						
10	Carbon black content(%)	2.0-3.0						
11	Carbon black dispersibility	Out of 10 data points, there should be no more than 1 level 3, and levels 4 and 5 are not allowed.						
12	Atmospheric pressure oxidation induction time (OIT) (min)	Induction time of atmospheric pressure oxidation 100						
		Induction time of high-pressure oxidation 400						
13	85 ? thermal aging (atmospheric pressure OIT retention rate after 90 days)	55						
14	UV resistance (OIT retention rate after 1600 hours of UV irradiation) %	50						

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