

TECHNICAL DATA SHEET (TDS)

Product Series: Non-woven Geotextile

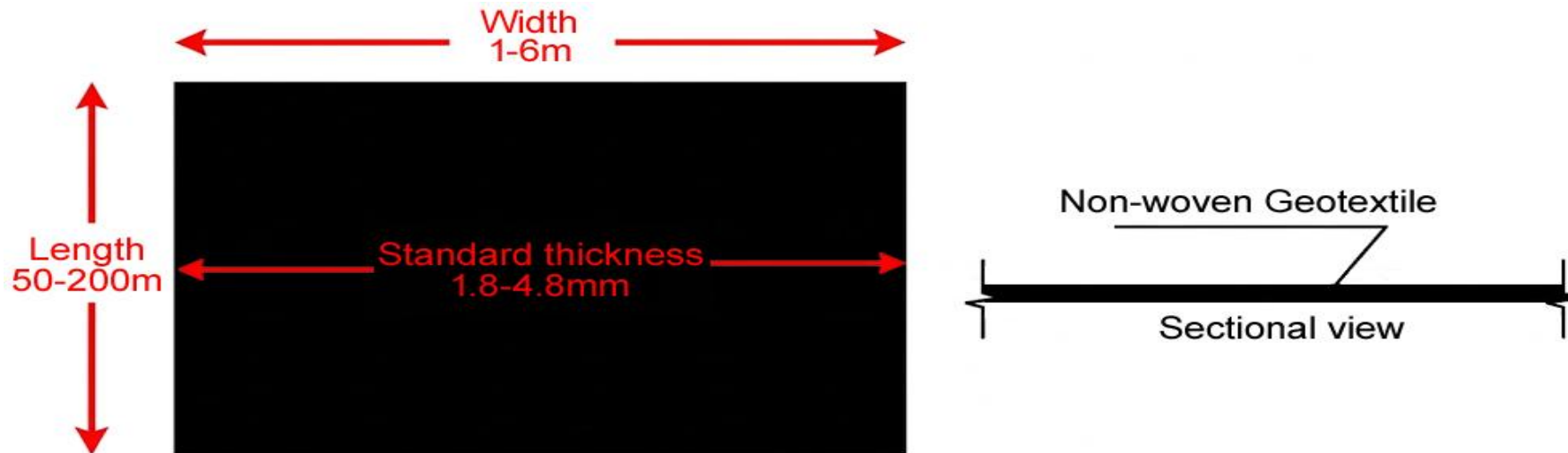


Brand	Geoleed
Material	Non-woven Geotextile
Application	Pile reinforcement of roadbed/Road surface maintenance/Dam protection/Water conservancy isolation

1. PRODUCT OVERVIEW

Non-woven Geotextile is Continuous Filament Needle punched non-woven Geotextile made from Polyester, formed by the process of needle punching and thermally bonding, offers optimum performance per unit weight. Non-woven Geotextile provides effective and economical solution of separation, filtration, drainage, protection and reinforcement functions for engineering projects.

2. PHYSICAL PROPERTIES



Product	Thickness	Reel size (width x length)
GL150N	1.8mm	6mx200m
GL200N	2.3mm	6mx150m
GL250N	2.9mm	6mx100m
GL300N	3.2mm	6mx100m
GL350N	3.6mm	6mx100m
GL400N	3.9mm	6mx80m
GL450N	4.2mm	6mx80m
GL500N	4.4mm	6mx50m
GL600N	4.8mm	6mx50m

3. MECHANICAL PROPERTIES (MARV)*

Index Properties	Test Method	Unit	Values									
			GL150	GL200	GL250	GL300	GL350	GL400	GL450	GL500	GL600	GL1000
Color	-	-	White or Black									
Ultimate Tensile Strength, MD	ASTM D4595	kN/m	11	14	17	19	24	27	30	37	41	65
Ultimate Tensile Strength, TD	ASTM D4595	kN/m	10	12	15	17	21	25	28	34	38	55
Tensile Elongation	ASTM D4595	%	45	50	50	50	60	60	60	60	60	60
Grab Tensile Strength, MD	ASTM D4632	N	600	850	1000	1250	1450	1700	1900	2100	2500	5500
Grab Tensile Strength, TD	ASTM D4632	N	550	700	900	1100	1250	1450	1600	1800	2150	4500
Grab Elongation	ASTM D4632	%	45	50	50	50	60	60	60	60	60	60
Trapezoid Tear Strength, MD	ASTM D4533	N	300	350	430	490	540	630	710	770	920	1600
Trapezoid Tear Strength, TD	ASTM D4533	N	270	330	400	450	510	610	690	750	900	1400
CBR Puncture Strength	ASTM D6241	N	1800	2300	2700	3200	3600	4400	4800	5800	6900	10000
Apparent Opening Size O ₉₀	ASTM D4751	mm	0.11	0.11	0.1	0.09	0.09	0.08	0.08	0.08	0.08	0.07
Water Flow Q ₁₀₀	ASTM D4491	L/m ² /s	235	220	200	185	165	125	110	90	80	30
U.V. Resistance	ASTM D4355	% @ 500h	70	70	70	70	70	70	70	70	70	70
Weight	ASTM D5261	g/m ²	150	200	250	300	350	400	450	500	600	1000
Thickness	ASTM D5199	mm	1.8	2.3	2.9	3.2	3.6	3.9	4.2	4.4	4.8	
Roll Width	-	m	6	6	6	6	6	6	6	6	6	6
Roll Length	-	m	200	150	100	100	100	80	80	50	50	30