



MARSFELT

NON - WOVEN GEOTEXTILE



MARSFelt Geotextile

Permeable textile of synthetic fibers made from polypropylene cut (staple) fibers, formed in to uniform web and then needle-punched for entanglement to achieve high strength. For certain applications, the non-woven geotextile may then be heat treated by forced air thermal bonding and/or by calendaring, which is pressing with a hot roll and pressure.

MARSFelt Geotextile Advantages

Nonwoven geotextile have highest coefficient of friction against soil or stone have the ability to locally elongate to relieve stress concentrations to avoid construction damage and the nonwovens conform well to irregular ground surfaces. Nonwoven have higher permittivity and water flow, yet have tighter pore size to be a finer filter.

functions

Nonwovens provide separation, filtration, drainage, asphalt absorption, and cushion/protection.



Separation/
stabilization



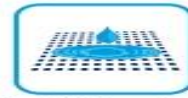
Filtration



Drainage



Protection



Asphalt Absorption

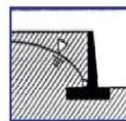
Applications



Liquid waste



Solid waste



Drainage systems



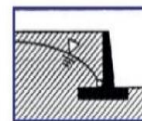
Erosion protection



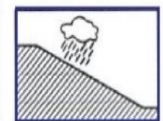
Liquid waste



Solid waste



Drainage systems



Erosion protection

MEMBER OF :

ISO 9001
BUREAU VERITAS
Certification



ISO 14001
BUREAU VERITAS
Certification



OHSAS 18001
BUREAU VERITAS
Certification



The information given in this data sheet is based on both current development work and many years of field experiences. Whilst every effort is made to insure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no control over methods of application, site conditions etc.



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ALPHAFELT

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Properties		Test Method	Unit	A		C	D	E	F	G	H	I	J	K	L	M	N	O
Functional	CBR Puncture	EN ISO 12236	N	1000	1200	1400	1800	2000	2500	2800	3200	3500	4000	4500	5100	6100	8100	10000
	Puncture Strength	ASTM D 4833	N	180	220	260	360	420	2500	550	700	850	950	1100	1200	1500	2000	2400
	Dynamic Puncture	EN 918	mm	30	26	22	19	18	14	14	12	9	8	7	5	0	0	0
	Mullen Burst	ASTM D 3786	PSI	130	160	185	290	300	360	400	450	500	600	700	770	900	1100	1300
	Elongation at 30 % Load	EN 29073-3	%	30	30	30	30	30	30	30	30	30	30	700	35	35	35	35
	Flow Rate (10cm Head)	BS 6905 Parr 3	l/m ² /s	240	200	190	120	100	95	90	85	75	55	50	45	40	35	30
	Permeability	ASTM D 4491	sm/s	0.35	0.32	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
	Transmissivity (2kN/ms)	ASTM D 4716	l/m/h	100	120	140	160	170	185	190	200	200	200	240	300	340	380	420
	Opening Size (O95)	ASTM D 4751	micron	106	106	106	75	75	75	75	75	75	75	75	75	75	75	75
Index	Tensile - 5cm Strip (CD)	EN 29073-3	N	200	280	340	630	700	900	1100	1200	1500	1800	2000	2100	2800	3100	3800
	Tensile - 5cm Strip (MD)	EN 29073-3	N	170	235	280	380	420	520	600	700	820	850	1050	1100	1300	1700	2000
	Minimum Elongation	EN 29073-3	%	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	Grab Strength (DD)	ASTM D 4632	N	215	290	340	520	700	900	1100	1180	1500	1750	2000	2100	3000	3200	3500
	Grab Strength (MD)	ASTM D 4632	N	190	250	300	400	470	600	700	800	930	1000	1150	1200	1500	1800	2100
	Min. Grab Elongation	ASTM D 4632	%	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
	Trapezoidal Tear (CD)	ASTM D 4533	N	110	140	160	250	340	430	500	530	580	900	900	1000	1200	1500	1800
	Trapezoidal Tear (MD)	ASTM D 4533	N	100	120	140	180	200	250	280	300	350	400	450	500	350	800	1000
Physical	Thickness (2kN/M ²)	ASTM D 5199	mm	1.4	1.6	1.8	2.2	2.5	2.7	3.0	3.2	3.5	3.8	4.2	4.7	5.2	7.0	8.5
	Mass Per Unit Area	ASTM D 5261	g/m ²	100	120	140	180	200	250	380	300	350	400	450	500	600	800	10000
	Roll Size (W x L)		m	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 100	3 x 50	3 x 50

Values reported in this data sheet are indicative average results obtained in our laboratory and independent testing laboratories. The right is reserved to make changes at any time without notice

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