

ALYAF A1 SERIES

Needle-punched nonwoven polyester geotextiles



PROPERTY	TEST METHOD	UNITS	A181	A201	A221	A241	A301	A381	A401	A451	A501	A601	A701	
MECHANICAL	Tensile Strength (CD)	EN ISO 10319	kN/m	3.0	4.5	6.0	7.0	11	18	20	26	31	38	45
	Tensile Strength (MD)	EN ISO 10319	kN/m	2.6	4.0	5.0	6.0	9.0	12	13	15	17	21	24
	Elongation (CD / MD)	EN ISO 10319	%	60/50	60/50	60/50	60/50	60/50	55/50	55/50	55/50	55/55	55/55	55/60
	CBR Puncture Resistance	EN ISO 12236	N	580	750	975	1150	1700	2400	2800	3300	3800	4600	5600
	Dynamic Cone Drop	EN 918	mm	34	32	30	27	23	16	14	12	10	8	5
HYDRAULIC	Permeability	EN ISO 11058	m/s.10 ⁻³	100	95	90	85	80	65	60	55	53	40	30
	Flow Rate	EN ISO 11058	l/m ² /s	100	95	90	85	80	65	60	55	53	40	30
	Opening Size	EN ISO 12956	microns	106	106	106	100	90	75	75	70	70	67	65
PHYSICAL	Thickness at 2 kPa	EN ISO 9863 -1	mm	1.3	1.4	1.6	1.8	2.3	2.7	2.8	3.1	3.4	4.0	4.6
	Weight	EN ISO 9864	g/m ²	80	100	120	140	200	280	300	350	400	500	600
	Roll Width	nominal	meters	3	3	3	3	3	3	3	3	3	3	3
	Roll Length	nominal	meters	100	100	100	100	100	100	100	100	100	100	100

1. ALYAF geotextiles are non- biodegradable, have excellent resistance to chemicals and salts normally present in the soil and are unaffected by prolonged contact with common organic solvents such as gasoline and deisel.
2. ALYAF geotextiles have excellent UV resistance and exhibit of 70% on test for weathering resistance to EN 12224. ALYAF getextiles are delivered in opaque PE wrap for protection against UV-ray during transit and storage. The recommended maximum time of exposure to direct sunlight is 15 days.
3. 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.



شركة الألياف الصناعية المحدودة
ALYAF INDUSTRIAL CO. LTD.

CORPORATE MEMBER



International Geosynthetic Society



www.alyaf.com | email: info@alyaf.com

P.O. Box 10737, Dammam 31443

Tel : +966 3 812 1206 • Fax: +966 3 812 1836

Kingdom of Saudi Arabia