

# ALYAF XL RANGE

The **EXCEL** range of polyester nonwoven needle-punched geotextiles



PROPERTY	TEST METHOD	UNITS	A241 XL	A281 XL	A301 XL	A351 XL	A401 XL	A451 XL	A501 XL	A601 XL	A701 XL	AX11 XL	AX13 XL	
MECHANICAL	Tensile Strength (CD)	EN ISO 10319	kN/m	6	8.5	11	14.0	17	20	22	27	32	70	80
	Tensile Strength (MD)	EN ISO 10319	kN/m	6	8.5	11	14.0	17	20	22	27	30	43	50
	Elongation (CD / MD)	EN ISO 10319	%	50/50	50/50	50/50	50/50	60/50	65/55	65/55	65/55	65/55	60/70	60/70
	CBR Puncture Resistance	EN ISO 12236	N	1350	1700	1900	2500	3000	3500	4000	5000	5900	10000	11000
	Dynamic Cone Drop	EN 918	mm	30	26	22	18	14	12	10	6	5	0	0
HYDRAULIC	Permeability	EN ISO 11058	m/s.10 <sup>-3</sup>	100	75	70	65	60	56	53	45	30	26	16
	Flow Rate	EN ISO 11058	l/m <sup>2</sup> /s	100	75	70	65	60	56	53	45	30	26	16
	Opening Size	EN ISO 12956	microns	100	70	85	80	75	70	70	67	67	65	65
PHYSICAL	Thickness at 2 kPa	EN ISO 9863 -1	mm	1.5	1.6	1.8	2.3	2.7	3.0	3.2	4.0	5	7.5	8.5
	Weight	EN ISO 9864	g/m <sup>2</sup>	140	180	200	250	300	350	400	500	600	1000	1200
	Roll Width	nominal	meters	6	6	6	6	6	6	6	6	6	6	6
	Roll Length	nominal	meters	200	100	100	100	100	100	100	100	100	50	50

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.



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