

## TECHNICAL DATA SHEET

Product Name **Kaymat®**  
 Reference No: DS GNRL 0450-03/2013  
 Date of Issue 03 May 2013  
 Description Nonwoven, Continuous Filament, Needle Punched, Polyester Geotextile

			U12	U14	U19	U24	U34	U44	U64	U75	U100	
Mass	Nominal	g/m <sup>2</sup>	130	150	180	210	270	340	550	750	1000	ASTM D5261
Thickness	Thickness under 2kPa	mm	1.2	1.4	1.6	1.8	2.6	3.1	4.4	5.2	6.4	ASTM D5199
Throughflow	@50mm head	l/s/m <sup>2</sup>	200	150	125	100	80	70	45	30	20	ASTM D4491
Permittivity		s <sup>-1</sup>	4.0	3.0	2.5	2.0	1.6	1.4	0.9	0.6	0.4	ASTM D4491
Transverse Throughflow		l/hr	20	30	35	40	50	55	75	120	130	ASTM D4716
Tensile Strength	Machine	kN/m	6.5	9.6	12.0	14.2	22.2	25.4	44.5	54.5	68.0	ASTM D4595
	Across	kN/m	5.5	8.0	9.2	12.0	16.3	19.5	37.5	48.0	49.5	
	Elongation	%	40 – 60									
Puncture Resistance	CBR	N	1300	1800	2100	2500	3600	4700	7100	9200	11700	ASTM D6241
Trapezoidal Tear Strength	Weaker direction	N	240	300	350	440	600	740	1170	1550	2030	ASTM D4533
Grab Strength	Weaker Direction	N	500	600	730	880	1150	1480	2500	3450	3700	ASTM D4632
Pore Size	O <sub>95</sub>	µm	205	200	180	160	150	120	75	<75	<75	ASTM D4751
UV Stability	80% strength retained after 500 hours											ASTM D4355

**The above results represent laboratory averages**

Nonwoven – High throughflow and excellent filtration  
 Continuous Filament – High isotropic strength  
 Needlepunched – High elongation  
 Polyester – Superior chemical resistance

Kaytech reserves the right to make technical modifications to its products

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