



688 Sovereign Road, London, Ontario, Canada, N5V 4K7
 Tel. (519) 457-7166 Fax. (519) 457-3277

HIGHWAY GRADE GEOTEXTILES PERFORMANCE SPECIFICATIONS

January 2003

PROPERTY	TEST METHOD	UNIT of MEASURE	3" FL-00511	4" FL-04187	5" FL-04190	6" FL-04188	6" HD FL-04189	
<i>TESTED IN ACCORDANCE WITH ASTM D6707 "Standard Specification for Circular-Knit Geotextile for use in Subsurface Drainage Applications"</i>								
AOS	(max)	ASTM D4751	mm	0.425	0.300	0.355	0.425	0.300
			US standard sieve	40	50	45	40	50
PERMITTIVITY	(min)	ASTM D4491	s ⁻¹	8.70	4.50	8.70	9.00	5.20
PUNCTURE STRENGTH	(min)	ASTM D6241	N	1000	1000	1000	1000	1000
			lbs	225	225	225	225	225
MASS (Relaxed)	(min)	ASTM D5261	gm / m ²	145	165	140	140	150
			oz. / yd ²	4.3	4.8	4.1	4.1	4.4
MASS (Applied)	(min)		gm / m ²	125	130	135	125	136
			oz. / yd ²	3.7	3.8	4.0	3.7	4.0
THICKNESS	(min)	ASTM D5199	mm	0.78	1.15	0.55	0.64	0.58
			mils	37	45	21	25	22
TRAPEZOIDAL TEAR <small>(either principle direction)</small>	(min)	ASTM D4355	N	75	100	95	70	75
			lbs	17	22	21	16	17
PERMEABILITY	(min)	ASTM D4491	cm / sec	0.75	0.51	0.50	0.60	0.35
FLOW RATE	(min)	ASTM D4491 (mod)	gal / min / pi ²	383	200	340	340	250
MULLEN BURST	(min)	ASTM D3887	kpa	900	760	900	900	900
			psi	131	110	131	131	131
LAYFLAT WIDTH <small>(nominal)</small>			inches	5.0	5.5	8.5	8.5	10.5
			mm	127	147	216	216	266
FIBER CONTENT			Polyester	100%	100%	100%	100%	100%
YARN DENIER				150	150	150	150	150
SPECIFIC GRAVITY				1.3	1.3	1.3	1.3	1.3
MELT TEMPERATURE				450° F	450° F	450° F	450° F	450° F

NOTES:

ZODIAC FABRICS INC. supports the use of ASTM D 6707 Test Procedures for the purposes of acceptance testing. Results of additional test procedures are provided for reference and information purposes only.

All values provided are to be considered as minimum values unless otherwise noted.

Values shown are based upon independent laboratory evaluation and are considered to be true and accurate.

The values shown are indicative of the properties of the fabric at the time of manufacture and shipment to the original purchaser.



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REGULAR GRADE GEOTEXTILES
GENERAL PERFORMANCE SPECIFICATIONS

January-03

		Test Method	Regular Grade "White" or "Black" Filter
<i>TESTED IN ACCORDANCE WITH ASTM D6707 "Standard Specification for Circular-Knit Geotextile for use in Subsurface Drainage Applications"</i>			
Permittivity	(min.)	ASTM D4491	8.0 sec ⁻¹
Puncture Resistance	(min.)	ASTM D6241	1000 N
AOS	(max.)	ASTM D4751	.600 mm 30 U.S.Sieve
FOS	(max.)	CAN/CGSB-148.1, M10-94)	425 microns
Mass	(relaxed)	ASTM D3887	3.0 - 3.9 oz/yd ² 105 - 135 gm/m ²
Mass	(applied minimum)		2.7 - 3.5 oz/yd ² 95 - 120 gm/m ²
Thickness		ASTM D1776	0.6 mm
Permeability (K)	(min.)	ASTM D4491	6.0 x 10 ⁻¹ cm./sec.
Burst Strength	(min.)	ASTM D3887	830 kpa
Air Permeability	(min.)	ASTM D737	700 ft ³ /ft ² /min
Water Flow Rate	(min.)	at 3" head pressure	300 gal/min/in. ²
Fiber Content			polyester 100%
Yarn Denier			150
Specific Gravity			1.3
Melt Temperature			450 ⁰ F (230 ⁰ C)

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