



Precision Geosynthetic Laboratories



November 7, 2006

Clint View
INLAND TARP & COVER
4172 N. Frontage Road East
Moses Lake WA 98837

Dear Mr. View: RE: **Quarterly Material Testing**

Thank you for consulting Precision Geosynthetic Laboratories for your material testing needs.

Enclosed is the **final** laboratory report for the testing of one (1) 12mil Woven Reinforced Fabric received on October 30, 2006.

It should be noted that the test specimen and test sample used for this report was believed to be representative of the material produced under the designation herein stated. However, these results are indicative of only the specimens that were actually tested. The testing herein is based upon accepted industry practice as well as the test method listed. Precision Geosynthetic Laboratories neither accepts responsibility for nor makes claims to the final use and purpose of the material.

By accepting the data and results represented on this report, Client agrees to limit the liability of Precision Geosynthetic Laboratories from Client and all other parties for claims arising out of the use of this data to the cost for the respective test(s) represented in this report, and Client agrees to indemnify and hold harmless Precision Geosynthetic Laboratories from and against all liability in excess of the aforementioned limit.

The test data and all associated project information shall be held in confidence, not to be reproduced except in full and disclosed to other parties with the authorization of the Client.

It is a company policy to keep the physical records of each job for 2 years since the receipt of the samples and keep the electronic file for 7 years. **Failed seam samples are kept for 7 years; good seam samples are disposed after 2 weeks and conformance samples are disposed after 1 month.** Should you need us to keep them longer, please advise us in writing.

If you have any questions or if we may be of further service, please do not hesitate to call at 800-522-4599.

Sincerely,

PRECISION GEOSYNTHETIC LABORATORIES

Maria Espitia

Maria Espitia
Quality Assurance

Cora B. Queja
Vice President

Enclosure: (Job No. G061212)



Precision Geosynthetic Laboratories



CLIENT: *INLAND TARP & COVER*
PROJECT: *Quarterly Material Testing*

VERIFICATION OF MATERIAL PROPERTIES
(PGL Job No. G061212)

MATERIAL DESCRIPTION: 12mil Reinforced Woven Fabric

SAMPLE(S) SENT BY: C. View, Inland Tarp & Cover

DATE RECEIVED: October 30, 2006

DATE REPORTED: November 7, 2006

SAMPLE IDENTIFICATIONS:

SAMPLE ID	PRECISION CONTROL NUMBER
12 mil Black/Black	29526

TESTS REQUIRED:

TEST METHOD	DESCRIPTION
ASTM D751	Tongue Tear, NSF Modified
ASTM D751	Strip Tensile Strength
ASTM D1777	Thickness
ASTM D751	Mass per Unit Area
ASTM D751	Hydrostatic Resistance
ASTM D3786	Mullen Burst Strength
ASTM D4833	Puncture Resistance
ASTM D751	Grab Tensile Strength

TEST CONDITIONS: The sample was conditioned for a minimum one hour in the laboratory at $22 \pm 2^{\circ}\text{C}$ ($71.6 \pm 3.6^{\circ}\text{F}$) and at $60 \pm 10\%$ relative humidity prior to test.

TEST RESULTS:

The test results are summarized in Table 1. The units in which the data are reported are included on this table.

PRECISION GEOSYNTHETIC LABORATORIES

Maria Espitia

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TABLE 1.
MATERIAL PROPERTIES
CLIENT: INLAND TARP & COVER
PROJECT: Quarterly Material Testing

Date Received: **10/30/2006**
 Date Reported: **11/7/2006**
 Client Sample ID: **12mil Black/Black**
 Material Description: **12mil Reinforced Woven Fabric**

QC'd By: Maria Epstein
 PGL Job No.: **G061212**
 PGL Control No.: **29526**

		SPECIMENS														Proj. Specs.				
		1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max					
METHOD	DESCRIPTION																			
ASTM D1777	Thickness (mils)																			
Test Option #1	<i>Used deadweight type dial micrometer with 1.129+/-0.001in dia presser foot with an applied pressure of 0.6+/-0.03psi provided by a 272gm weight.</i>																			
		15	14	15	13	14	14	13	14	14	14	14	1		13	15				
ASTM D751	Mass per Unit Area (oz/ yd. ²)																			
	<i>Test Specimen Size: 4" x 8"</i>																			
		6.3	6.4	6.3	6.3	6.6											6.4	0.1	6.3	6.6
ASTM D4833	Puncture Resistance (lbs)																			
	<i>Specimens were tested as directed in Test Method D4833. They were clamped without tension between circular plates of a ring clamp attachment secured in the tensile machine. Test specimens extended to or beyond the outer edges of the clamping plates.</i>																			
		73	93	90	83	82	86	77	77	80	71	82	8		71	94				
		82	93	94	81	73														
ASTM D3786	Mullen Burst Strength (psi) <i>(Total Breaking Pressure - Tare Pressure)</i>																			
	<i>Specimens were tested as directed in Test Method D3786 using the Mullen Tester.</i>																			
		285	275	295	285	285	275	295	285	285	295	286	7		275	295				
ASTM D751	Tongue Tear Resistance (lbs)																			
NSF Modified	A	59	61	62	63	56											60	3	56	63
	B	65	58	61	65	62											62	3	58	65
ASTM D751	Strip Tensile																			
Procedure B	Tensile Strength (lbs/in)																			
	A	118	120	118	103	118											115	7	103	120
	B	109	111	114	110	114											111	2	109	114
	Elongation at Break (percent)																			
	A	23	25	24	24	22											24	1	22	25
	B	24	23	26	27	26											25	2	23	27
ASTM D751	Grab Tensile																			
Procedure A	Tensile Strength (lbs)																			
	A	197	188	157	166	160											173	18	157	197
	B	186	171	182	161	164											173	11	161	186
	Elongation at Break (percent)																			
	A	29	26	20	23	21											24	4	20	29
	B	19	27	24	21	23											23	3	19	27
ASTM D751	Hydrostatic Resistance (psi) <i>It leaks, but did not burst</i>																			
Procedure A1	<i>Test method used pressure application by Mullen Type Hydrostatic Tester with screen and glass support.</i>																			
		85	80	75	85	80	80	75	85	80	80	81	4		75	85				