



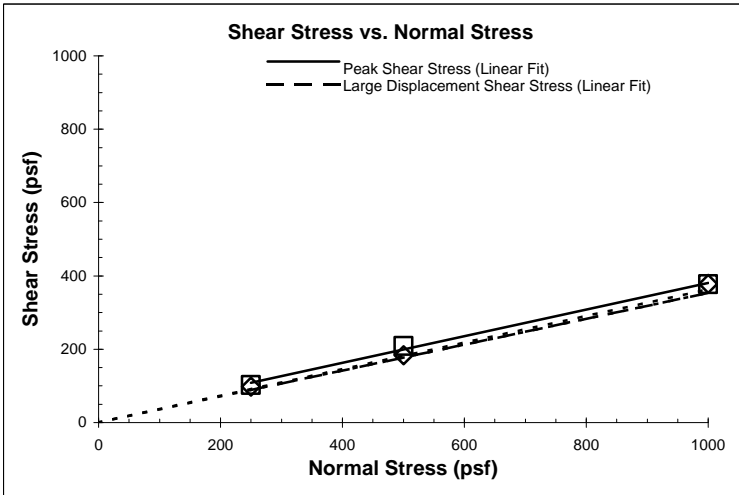
Interface Friction Test Report

Client: **Intertape Polymer Group**
 Project: **Research**
 Test Date: 03/1/06-03/8/06

TRI Log#: E2243-17-008
 Test Method: ASTM D 5321

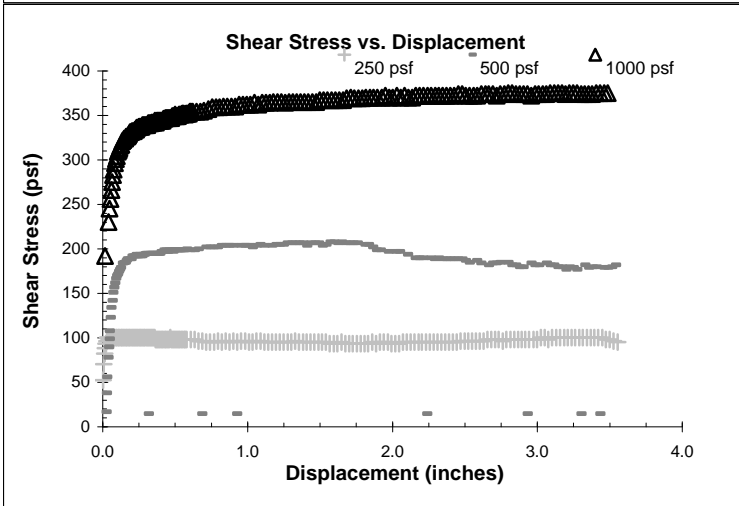
John M. Allen, E.I.T., 03/10/2006
 Quality Review/Date

Tested Interface: AquaMaster RPE24 Geomembrane vs. Ottawa Sand



Test Results		
	Peak	Large Displacement (@ 3.4 in.)
Friction Angle (degrees):	19.9	19.5
Y-intercept or Adhesion (psf):	1	0

Note: Large displacement friction angle includes the origin.



Test Conditions	
Upper Box &	Ottawa sand lightly tamped in place at 7% moisture content
Lower Box	Aqua Master RPE24 Geomembrane faille side
Box Dimensions:	12"x12"x4"
Interface Conditioning:	Interface soaked and loading applied for a minimum of 24 hour prior to shear.
Test Condition:	Wet
Shearing Rate:	0.04 inches/minute

Test Data			
	1	2	3
Specimen No.			
Bearing Slide Resistance (lbs)	10	13	18
Normal Stress (psf)	250	500	1000
Corrected Peak Shear Stress (psf)	86	192	361
Corrected Large Displacement Shear Stress (psf)	81	167	361
Peak Secant Angle (degrees)	18.9	21.0	19.8
Large Displacement Secant Angle (degrees)	18.0	18.5	19.8
Asperity (mils)	NA	NA	NA

Soil Characterization			
USCS:	NA	Proctor Type:	NA
LL:	NA	Max. Dry Density (pcf):	NA
PL:	NA	Optimum Moisture Content:	NA

The testing herein is based upon accepted industry practice as well as the test method listed. Test results reported herein do not apply to samples other than those tested. TRI neither accepts responsibility for nor makes claim as to the final use and purpose of the material.

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