



# TESTING, RESEARCH, CONSULTING AND FIELD SERVICES

Austin, TX - USA | CA - USA | SC - USA | Gold Coast - Australia | Suzhou - China | Sao Paulo, Brazil | Johannesburg - Africa

July 13, 2021

**Mail To:**

**Jake Shay**  
**SOX Erosion Solutions**  
950 Peninsula Corporate Circle  
Suite 2020  
Boca Raton, FL 33487

email: jake@soxerosion.com

**Bill To:**

<= Same

Dear Mr. Shay:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs.  
TRI is pleased to submit this final report of the laboratory testing for the sample(s) listed below.

Project:	<b>Geotextile Testing</b>
TRI Job Reference Number:	64582
Material(s) Tested:	One, T2 Single Layer Geotextile
Test(s) Requested:	Grab Tensile (ASTM D 4632) Permittivity (ASTM D 4491)

If you have any questions or require any additional information, please call us at 1-800-880-8378

Sincerely,

Mansukh Patel  
Laboratory Manager  
Geosynthetic Services Division

\*Signature is on file



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## GEOTEXTILE TEST RESULTS TRI Client: SOX Erosion Solutions Project: Geotextile Testing

Material: Geotextile

Sample Identification: Sample T2 Single Layer

TRI Log #: 64582

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.	PROJ. SPEC.
	1	2	3	4	5	6	7	8	9	10			
Grab Tensile Properties (ASTM D 4632)													
MD - Tensile Strength (lbs)	64	63	62	63	65	63	63	61	66	68	64	2	
TD - Tensile Strength (lbs)	108	113	111	115	115	119	110	119	121	108	114	5	
MD - Elong. @ Max. Load (%)	23	23	25	25	25	24	25	23	24	25	24	1	
TD - Elong. @ Max. Load (%)	53	52	54	54	51	55	53	55	54	53	53	1	
Constant Head Permittivity (ASTM D 4491, 20-mm Constant Head; 2 in opening)													
Water Temp. (C):	19.4												
Correction Factor:	1.017												
Test Specimen No. >:	1					2							
Opening Diameter, cm	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08			
Contant Head, cm	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00			
Thickness (mils)	42.8	42.8	42.8	42.8	42.8	41.6	41.6	41.6	41.6	41.6			
Thickness (mm)	1.09	1.09	1.09	1.09	1.09	1.06	1.06	1.06	1.06	1.06			
Volume Collected (liters)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0			
Time (s)	11.3	11.2	11.1	11.5	11.1	11.2	11.2	11.6	11.5	11.2			
Specimen Permittivity @20°C (sec-1)	4.44	4.48	4.52	4.36	4.52	4.48	4.48	4.33	4.36	4.48			
Specimen Flow rate (GPM/ft2)	332.2	335.2	338.2	326.5	338.2	335.2	335.2	323.7	326.5	335.2			
Specimen Flow rate (LPM/m2)						13780							
Specimen Permeability (cm/s)	0.48	0.49	0.49	0.47	0.49	0.49	0.49	0.46	0.46	0.47			
Test Specimen No. >:	3					4							
Opening Diameter, cm	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08	5.08			
Contant Head, cm	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00			
Thickness (mils)	43.8	43.8	43.8	43.8	43.8	42.1	42.1	42.1	42.1	42.1			
Thickness (mm)	1.11	1.11	1.11	1.11	1.11	1.07	1.07	1.07	1.07	1.07			
Volume Collected (liters)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0			
Time (s)	11.6	11.9	11.7	11.8	11.8	11.9	12.4	12.2	11.9	12.0			
Specimen Permittivity @20°C (sec-1)	4.33	4.22	4.29	4.25	4.25	4.22	4.05	4.11	4.22	4.18			
Specimen Flow rate (GPM/ft2)	323.7	315.5	320.9	318.2	318.2	315.5	302.8	307.7	315.5	312.9			
Specimen Flow rate (LPM/m2)						13080							
Specimen Permeability (cm/s)	0.48	0.47	0.48	0.47	0.47	0.47	0.45	0.44	0.45	0.45			