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REPORT

GEOSYNTHETICS TEST REPORT

REPORT REFERENCE: BS-U380/a

Report Date	13/09/2022
Client	Isomat S A Building Chemicals and Mortars
Address	17th km Thessaloniki Ag Athanasios Road GR 570 03 Agios Athanasios
Contact	Ourania Doumpla
Contract Reference	N/A
Client PO/Ref No	Ourania Doumpla
Material Tested	ISOFLEX-PU
Date Received	24/06/2022
Sample IDs	ISOFLEX-PU 510 {WHITE}
Tests Requested	Resistance to Roots - PD CEN/TS 14416:2014*

Prepared by:



David Smith
Technical Co-ordinator

Approved by:



Shazeena Iqbal
Technical Director

Samples tested as received. Tests Marked with an asterisk (*) in this report are not included in the UKAS Accreditation Schedule for our laboratory.
Tests marked # have been subcontracted, tests marked * are not accredited. Tests marked F are accredited under the company's UKAS Flexible Scope.
This test report is in a condensed format, complete test details available upon request.
This test report may not be reproduced other than in full, except with prior written approval.

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GEOSYNTHETICS TEST RESULTS
ISOMAT S A BUILDING CHEMICALS AND MORTARS

Contract Ref: N/A **Report Ref No: BS-U380/a**
Material: ISOFLEX-PU 510 **Dates Tested: 14/07-01/09/2022**

TEST METHOD	TEST SPECIMEN NUMBER										MEAN	Std Dev
	1	2	3	4	5	6	7	8	9	10		

Sample ID: ISOFLEX-PU 510 {WHITE} **BICS Sample Ref: 1**

Resistance to Roots (PD CEN/TS 14416)*

Nominal Barrier Thickness: 1mm

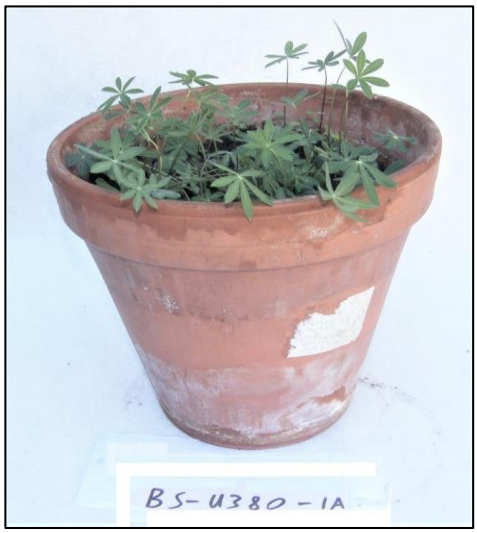
Method

Three samples of the Root Barrier were placed in soil into which seeds of lupin were sown. The seeds were grown for 7 weeks (under a dual spectrum 600W grow lamp) and then examined to see whether the barrier had been penetrated by the roots of the young plants.

Results

The exposed top side and the underside of the Root Barrier have been inspected. Photographs have been taken to show the top and underside surface of the test samples. The roots have not penetrated through the Root Barrier.

Photographs



Sample 1



Sample 2



Sample 3

Atmospheric Conditions at Test: 21 ± 2 °C, Relative Humidity : 65 ± 5 % RH

BICS Laboratories Ltd. neither accepts responsibility for nor makes claim as to the final use and purpose of the material.
Unless otherwise detailed sample sizes and related test items comply with the listed test method. Test results relate only to the sample(s) tested.
The company also observes and maintains client confidentiality.

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TEST METHOD	TEST SPECIMEN NUMBER										MEAN	Std Dev
	1	2	3	4	5	6	7	8	9	10		

Sample ID: ISOFLEX-PU 510 {WHITE} **BICS Sample Ref: 1**

Resistance to Roots (PD CEN/TS 14416)*

Specimen 1

Visual Assesment
The roots have not penetrated the specimen. The photographs show the underside of the sample and the roots at the top of the barrier interface.

Conclusion
The sample has resisted root penetration under the conditions of PD CEN/TS 14416:2014*



Atmospheric Conditions at Test: 21 ± 2 °C, Relative Humidity : 65 ± 5 % RH

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Contract Ref: N/A **Report Ref No: BS-U380/a**
Material: ISOFLEX-PU 510 **Dates Tested: 14/07-01/09/2022**

TEST METHOD	TEST SPECIMEN NUMBER										MEAN	Std Dev
	1	2	3	4	5	6	7	8	9	10		

Sample ID: ISOFLEX-PU 510 {WHITE} **BICS Sample Ref: 1**

Resistance to Roots (PD CEN/TS 14416)*

Specimen 2

Visual Assesment
The roots have not penetrated the specimen. The photographs show the underside of the sample and the roots at the top of the barrier interface.

Conclusion
The sample has resisted root penetration under the conditions of PD CEN/TS 14416:2014*



Atmospheric Conditions at Test: 21 ± 2 °C, Relative Humidity : 65 ± 5 % RH

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TEST METHOD	TEST SPECIMEN NUMBER										MEAN	Std Dev
	1	2	3	4	5	6	7	8	9	10		

Sample ID: ISOFLEX-PU 510 {WHITE} **BICS Sample Ref: 1**

Resistance to Roots (PD CEN/TS 14416)*

Specimen 3

Visual Assesment
The roots have not penetrated the specimen. The photographs show the underside of the sample and the roots at the top of the barrier interface.

Conclusion
The sample has resisted root penetration under the conditions of PD CEN/TS 14416:2014*



Atmospheric Conditions at Test: 21 ± 2 °C, Relative Humidity : 65 ± 5 % RH

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