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 Bellaterra
 : 24th July, 2017

 Report N°
 : 17/31704483

 Petitioner's reference
 : MARIS POLYMERS S.A. POLYURETHANE SYSTEMS

INOFITA VIOTIAS GREECE ; THESI ROUMAN 32011- GREECE

And on its behalf, Mr. Georgios Syriopoulos

TEST REPORT

MATERIAL RECEIVED

Sample is received on 12th may, 2017, referenced by the Petitioner as:



Remarks: The sampling of the material received was performed by the petitioner

TESTS REQUESTED BY THE PETITIONER

- Geosynthetic barriers. Test method for determining the resistance to roots according to Standard s/n UNE CEN/TS 14416 EX: 2014.

DATE OF TESTS PERFORMANCE: From 15.05.17 to 24.07.17

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Report number: 17/31704483

Page 2 of 3

PROCEDURES AND RESULTS

DETERMINATION THE RESISTANCE TO ROOTS

Test method according to standard UNE CEN/TS 14416 EX: 2014.

- Geosynthetic barriers. Test method for determining the resistance to roots

Test conditions:

- Test specimen: Circular approx. 20 cm diameter.
- Number of test specimens: 3
- Test period: 8 weeks
- Seeds: Lupinus Albus.

Note: To ensure rapid growth of plants, seeds were germinated before being planted

Test Procedure:

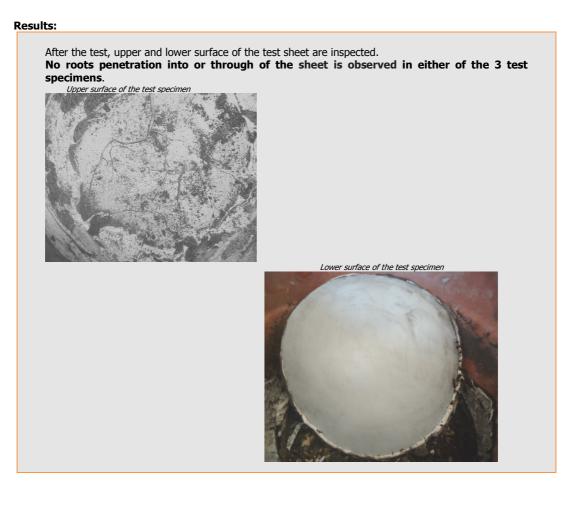
According to the indications of the standard, emptying and inspection after 8 weeks according to section 5 UNE CEN/TS 14416 EX:2014 and prior verification that the roots penetrated the sample of bitumen.

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Report number: 17/31704483

Page 3 of 3



IPE Manager Materials & Process LGAI Technological Center S.A

The results refer exclusively to the sample, product or materials delivered to the laboratory, as indicated in the section pertaining to the description of the material received, and tested under the conditions stated in this test report.

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In the framework of our improvement programme, we would appreciate any comments you may deem appropriate. These should be addressed to the manager who signs this document, or to the Quality Director of Applus+ at the following address: **satisfaccion.cliente@applus.com**.