

# PRÜFSTELLE TEXTIL

Durch die DGA Deutsche Gesellschaft für Akkreditierung mbH - vertreten  
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Deutscher  
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DGA-PL-1167.99



SÄCHSISCHES  
TEXTIL  
FORSCHUNGS  
INSTITUT e.V.

Durch die Zentralstelle der Länder für Sicherheitstechnik (ZLS) akkreditierte  
Prüfstelle für Produkte im Sinne der EG-Richtlinie für Persönliche Schutz-  
ausrüstungen 89/686/EWG und des §9 Abs. 2 Gerätesicherheitsgesetz

**ZLS**  
ZLS-P-846/09

Von der Federation Internationale de L'Automobile (FIA) Paris zugelassene Stelle zur Prüfung von hitze-  
und flammresistenter Schutzkleidung für Auto-Rennfahrer gemäß Standard FIA 8856-2000

## UNTERSUCHUNGSBERICHT | TESTREPORT

|                             |                                |
|-----------------------------|--------------------------------|
| <b>Order No. STFI:</b>      | <b>2011 2005.4E (T 879-11)</b> |
| <b>Order No. applicant:</b> | without                        |
| <b>Date of Test Report:</b> | 2011-11-14                     |
| <b>Responsible person:</b>  | Hierhammer                     |

|                   |                                                                                      |
|-------------------|--------------------------------------------------------------------------------------|
| <b>Applicant:</b> | GREENMAX<br>Mr. Marco Brouwers<br>Postbus 43<br>5473 Heeswijk-Dinther<br>Niederlande |
|-------------------|--------------------------------------------------------------------------------------|

### Testing application:

|                           |            |
|---------------------------|------------|
| <b>Of:</b>                | 2011-09-21 |
| <b>Order receipt on:</b>  | 2011-09-22 |
| <b>Sample receipt on:</b> | 2011-10-06 |

### Test sample:

Marking by applicant:

Coding for testing:

RootBlock 2 mm

Probe 01

The sampling happened by the applicant. The test department is not informed about the sampling procedure.

### Testing methods:

- (01) DIN EN ISO 9864: 2005-05  
Geosynthetics - Test method for the determination of mass per unit area of geotextiles and geotextile-related products
- (02) DIN EN ISO 12236: 2006-11  
Geosynthetics - Static puncture test (CBR test)
- (03) DIN EN ISO 10319: 2008-10  
Geotextiles - Wide-width tensile test
- (04) ASTM D 4533:2004 (2009)  
Standard test Method for Trapezoid Tearing Strength of Geotextiles

### Test results:

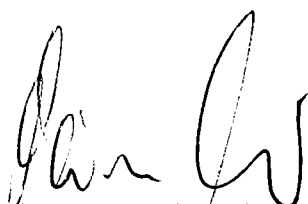
Sample 01

| Pos. | Test method                                                                                                                                  | Mean value                           | Standard deviation               |
|------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------|
| (01) | Mass per unit area [g/m <sup>2</sup> ]                                                                                                       | 1909,26                              | 10,22                            |
| (02) | Push-through force [kN]<br>Push-through displacement [mm]                                                                                    | 4,45<br>36,0                         | 0,08<br>1,00                     |
| (03) | Tensile strength [kN/m], md<br>Tensile strength elongation [%], md<br><br>Tensile strength [kN/m], cmd<br>Tens. strength elongation [%], cmd | 43,65<br>14,65<br><br>43,91<br>13,96 | 0,22<br>0,19<br><br>0,25<br>0,27 |
| (04) | Tearing Strength [N], md<br>Tearing Strength [N], cmd                                                                                        | not testable<br>(sample to stiff)    |                                  |

The test results refer to the delivered samples. The results are mean values. Statistical surveys and single values are available in the laboratory. It isn't allowed to copy the test report in parts. The testing period is defined as timeframe between receipt of samples and issue date of test report.



Dr. Matthias Mägel  
Head of the Accredited Test Laboratory

Dipl.-Ing. Marian Hierhammer  
Special field responsibility