13-0113IT-B

Issued on May 28th 2013

CLIENT
TINAZ KAUÇUK Kimya San. ve Tic. Ltd. Şti

PRODUCT NAME
LAY-FLEX

CATEGORY
EPDM Granules for Synthetic Athletic Surfaces

Assessment of Granules, Films and 13mm. Synthetic Athletic Surface

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The results are valid only for the complete system as described in this report.
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SUBJECT
Assessment of Granules, Films and Synthetic Athletic Surface for resistance to wear (Taber test) and to UVB 313nm light 21 and 42 days.
A series of traction test it has been carried out on different samples new and aged in accordance to DIN 54001

STORAGE TIMES
Storage “Sine Die” of specimens and documents

TEST PERFORMANCE CONDITIONS IN LABORATORY

<table>
<thead>
<tr>
<th>Air temperature</th>
<th>Relative humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>23°C ± 2°C</td>
<td>50% ± 5%</td>
</tr>
</tbody>
</table>

APPLICANT
COMPANY NAME
TINAZ KAŬÇUK Kimya San. ve Tic. Ltd. Şti
ADDRESS
Oto Sanayi Sit. Aytekin Sok. No:4
34418 4. Levent - Istanbul
COUNTRY
Turkey

ACQUISITION DATA
DATE ORDER RECEIVED
April 03rd 2013
DATE FIRST SPECIMEN RECEIVED
April 03rd 2013
DATE LAST SPECIMEN RECEIVED
April 03rd 2013
START DATE OF TESTS
April 03rd 2013
END DATE OF TESTS
May 23rd 2013
SAMPLE IMAGE

TEST RESULTS
SIEVE ANALYSIS
GENERAL RESULTS

<table>
<thead>
<tr>
<th>Property</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sieve analysis result</td>
<td>1.6mm. - 3.15mm.</td>
</tr>
<tr>
<td>Hardness</td>
<td>65 Shore A</td>
</tr>
<tr>
<td>Taber (abrasion test)</td>
<td>2.1 g</td>
</tr>
<tr>
<td>Density</td>
<td>1.30 g/cm³</td>
</tr>
</tbody>
</table>

AGEING RESULTS (EPDM surface product)

<table>
<thead>
<tr>
<th>Condition</th>
<th>Tensile strenght</th>
<th>Elongation at break</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product new</td>
<td>0.61 N/mm²</td>
<td>58 %</td>
</tr>
<tr>
<td>Combined climate heat, humidity and UV light 21d</td>
<td>0.52 N/mm²</td>
<td>51 %</td>
</tr>
<tr>
<td>Combined climate heat, humidity and UV light 42d</td>
<td>0.47 N/mm²</td>
<td>46 %</td>
</tr>
</tbody>
</table>

AGEING RESULTS (film)

<table>
<thead>
<tr>
<th>Condition</th>
<th>Tensile strenght</th>
<th>Elongation at break</th>
<th>Change of appearance class DIN 54001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product new</td>
<td>5.1 N/mm²</td>
<td>376 %</td>
<td>4-5</td>
</tr>
<tr>
<td>Oven climate 80°C 21d</td>
<td>3.9 N/mm²</td>
<td>359 %</td>
<td>4-5</td>
</tr>
<tr>
<td>Oven climate 80°C 42d</td>
<td>3.6 N/mm²</td>
<td>347 %</td>
<td>4-5</td>
</tr>
<tr>
<td>Combined climate heat, humidity and UV light 21d</td>
<td>3.8 N/mm²</td>
<td>322 %</td>
<td>4-5</td>
</tr>
<tr>
<td>Combined climate heat, humidity and UV light 42d</td>
<td>3.6 N/mm²</td>
<td>278 %</td>
<td>4-5</td>
</tr>
</tbody>
</table>

CONCLUSIONS

The results of this report show that the product is suitable to be used to realize synthetic sport surfaces.

Executive Manager
Roberto Armeni

Synthetic Surface Manager
Davide Giorgini