Melos Infill EPDM ECO

»The use of environmentally friendly and sports-functional granules«

The Infill Granules for special environmental requirements

For all those who want to make use of proven EPDM Granules quality and have to satisfy tough eco-toxicology requirements at the same time. Like all Melos EPDM Granules, the Infill EPDM ECO consists of a high quality virgin material and originates from controlled, quality monitored production. Through the proven cross-linking with sulphur, a close-meshed, elastic and durable network is developed with superb ageing stability, Melos Infill EPDM ECO fulfils the strict requirements of the Austrian ISS Guidelines and offers optimal sports-functionality on a permanent basis.

Melos Infill Granules are used in different turf systems and are long-term proven. Intensive tests belong to our standards and ensure a high performance product.

> Highly environmentally compatible

Through the targeted selection of environmental friendly cross-linking chemicals and additives, the Infill EPDM ECO satisfies the tough requirements of the Austrian ISS Guidelines in terms of eco-toxicity (luminescent bacteria test) and PAH content; the material can also be safely used in water protection and water extraction areas.
Available colours

- **Infill Green**
  - Code: 46 5100
  - RAL: 6021
- **Brown**
  - Code: 46 2800
  - RAL: 8024

**Sieve curve Infill EPDM ECO 0.5 - 2.0 mm**

Optimal grain form and distribution are significant to the overall performance on a turf system. We have identified the driving parameters and can recommend a suitable granule for your particular requirements.

The sieve curve on the left shows the grain distribution of Infill EPDM ECO, as measured by an optical measuring system. Suitability tests underline Infill ECO’s ideal suitability for intensive use as infill granules for artificial turf.

**Product information**

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>Unit*</th>
<th>Test standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>g/cm³</td>
<td>1.60</td>
<td>DIN EN 1183-1</td>
</tr>
<tr>
<td>Polymer content</td>
<td>%</td>
<td>approx. 20</td>
<td>DIN EN ISO 3451-1</td>
</tr>
<tr>
<td>Bulk density (approx. ± 10%)</td>
<td>g/l</td>
<td>650</td>
<td>ISO 60</td>
</tr>
<tr>
<td>Hardness</td>
<td>Shore A</td>
<td>60</td>
<td>DIN ISO 7619-1</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>MPa</td>
<td>&gt; 5</td>
<td>DIN 53 504</td>
</tr>
<tr>
<td>Elongation at break</td>
<td>%</td>
<td>&gt; 500</td>
<td>DIN 53 504</td>
</tr>
<tr>
<td>Grain size</td>
<td>mm</td>
<td>0.5 - 2.0</td>
<td></td>
</tr>
<tr>
<td>Polymer base</td>
<td>EPDM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flame retardance</td>
<td></td>
<td></td>
<td>Available as a supportive component in a system of class Cfr-s1 (DIN EN 13501-1).²</td>
</tr>
</tbody>
</table>

**Environmental and health tests and certificates**

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>Value*</th>
<th>Test standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminence bacteria test</td>
<td>LID</td>
<td>GL = 3</td>
<td>DIN EN ISO 11348-2</td>
</tr>
<tr>
<td>Nitrification inhibition</td>
<td>%</td>
<td>&lt; 1</td>
<td>DIN EN ISO 9509:2006-10</td>
</tr>
<tr>
<td>Test in accordance with EN 71-3</td>
<td></td>
<td>Fulfills the requirements of toy safety standard with respect to the migration of certain components.</td>
<td></td>
</tr>
<tr>
<td>AFPS GS 2014:01 PAK</td>
<td></td>
<td>Fulfills the requirements of the category 1 and can be used safely.</td>
<td></td>
</tr>
<tr>
<td>DIN 18035-7</td>
<td></td>
<td>Fulfills all requirements according to DIN 18035-7, appendix B.</td>
<td></td>
</tr>
<tr>
<td>ÖISS</td>
<td></td>
<td>Fulfills all requirements of the Austrian ISS Guidelines in terms of eco-toxicity and inhibition of nitrification.</td>
<td></td>
</tr>
</tbody>
</table>

**Suitability tests**

In practical use, infill granules have to withstand severe conditions: intensive mechanical pressures and high stress caused by sunlight and fluctuating climatic conditions. The quality of the sulfur cured Melos Infill EPDM granules is continuously tested and controlled by the RAL Quality Monitoring. Naturally, the material also complies with all the usual national standards for artificial turf pitches.

¹ Technically related variations in property and colour and production-related variations as well as innovations and technical changes are reserved. Products shown may differ in configuration from the actual product.
² The RAL colour specifications are non-binding approximations. Differences in colour of the images are due to printing process.
² According to DIN EN 13501-1 individual components of a floor covering can not be tested according to standards. The fire classification is based on the entire system.