terrapor® 3

Technical data sheet | Revision: 07

Description:

terrapor® 3 is processed into PS 30 blocks, i.e. load-bearing thermal insulation, and into high-density EPS contour mouldings, especially perimeter insulation foam boards with reduced water absorption.
terrapor® 3 contains polymeric flame retardant and is certified to DIN 4102/B1 and EN 13501-1 class E.

densities of approx. 18 kg/m³ terrapor® 3 has been treated with an antistatic agent to prevent a build-up of electrostatic charge during transport.

> Intermediate aging:
Intermediate aging should be between 10 and 48 hours. Higher-density material may easily be processed after a longer time interval without adversely affecting quality.

> Moulding:
terrapor® 3 can be processed in industry-standard block moulds and automatic moulding machines. The material allows the production of a wide range of moulded parts and, by varying the steaming and filling gap parameters, the degree of fusion and the surface structure can be optimized for specific applications. Good mould-filling properties are achieved with minimum wall thicknesses of approx. 8 mm.

Packaging and storage:

terrapor® 3 is shipped in octabins (height max. 192 cm) on wooden pallets (114 x 114 cm) containing 1,150 kg net of material. The octabins are not weather- or water-proof and must therefore not be exposed to outdoor conditions. In order to obtain the desired properties of terrapor® 3, the raw material should be stored below 20 °C and be processed within one month.

Processing:

> Pre-expansion:
With discontinuously operating, state-of-the-art pre-expanders terrapor® 3 can be pre-expanded to

<table>
<thead>
<tr>
<th>Density range:</th>
<th>20 - 40 kg/m³</th>
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<tbody>
<tr>
<td>Granulate geometry:</td>
<td>bead-shaped granulate</td>
</tr>
<tr>
<td>Typical granulate diameter:</td>
<td>0.6 - 11 mm (&gt; 95 % by weight)</td>
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<tr>
<td>Pentane content (at the time of packaging):</td>
<td>&gt; 5.7 % by weight</td>
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<tr>
<td>Water content (at the time of packaging):</td>
<td>&lt; 0.4 % by weight</td>
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</tbody>
</table>

Colour:

> white
> blue
> green
> pink
> anthracite
> yellow

Shipping:

| ADR-Marking: | Substance no. 2211
Polymeric beads, expandable |
| Class: | 9 |
| Packing Group: | III ADR |

Safety instructions:

Flammable pentane-air mixtures may be generated during storage and processing of powerpor® 3. For this reason, adequate ventilation must be ensured (LEL pentane 1.3 % by volume).
The blowing agent pentane escapes relatively slowly from EPS foam blocks. Thus, when cutting recently moulded blocks, the formation of a flammable pentane-air mixture has to be anticipated.
In addition, all conceivable sources of ignition must be kept away, and the build-up of electric charges has to be prevented.

Please note: This notice reflects our current knowledge. The suitability for specific applications must be verified by the processor from a technical and legal point of view. Subject to technical changes.