**Description:**

powerpor® 2 is expandable polystyrene granulate (EPS) which can be processed into high-strength foam blocks or contour mouldings.

**Applications:**

Contour mouldings and blocks made from powerpor® 2 are processed into thermal insulation material for construction applications without special requirements concerning flame resistance. powerpor® 2 offers high mechanical strength and is thus the raw material of choice for construction contour mouldings (e.g. Hourdis, lay-in parts between girders in ceiling construction). In addition, large contour mouldings or cut-to-size blocks are also used for packaging applications.

**Density range:** 13 – 30 kg/m³

**Granulate geometry:** bead-shaped granulate

**Typical granulate diameter:** 1.0 – 1.6 mm (> 95 % by weight)

**Pentane content** (at the time of packaging): > 5,0 % by weight

**Water content** (at the time of packaging): < 0,4 % by weight

**Color:** white

**Packaging and storage:**

powerpor® 2 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 powerpor® 2, 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 powerpor® 2 can be pre-expanded to densities of approx. 15 kg/m³. Lower densities can be achieved by double pre-expansion or in optimized machines.

powerpor® 2 has been treated with an anti-static agent to prevent a build-up of electrostatic charge during transport of the expanded beads.

> **Intermediate aging:**

Intermediate aging should be between 10 and 48 hours.

> **Moulding:**

powerpor® 2 can be processed in industry-standard block moulds and automatic moulding machines and provides optimum fusion properties within the specified density range.

**Shipping:**

<table>
<thead>
<tr>
<th>ADR-Marking</th>
<th>Substance no. 2211 Polymeric beads, expandable</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Class:</strong></td>
<td>9</td>
</tr>
<tr>
<td><strong>Packing Group:</strong></td>
<td>III ADR</td>
</tr>
</tbody>
</table>

**Safety instructions:**

Flammable pentane-air mixtures may be generated during storage and processing of powerpor® 2. 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.