

# sunpor<sup>®</sup> HP150

## Technical data sheet | Revision: 03

### Description:

**sunpor<sup>®</sup> HP150** is a preexpanded, ready for use polystyrene material, which can be processed into moulded parts with high mechanical strength and low thermal conductivity with low cycle time. **sunpor<sup>®</sup> HP150** contains polymeric flame-retardant.

|   |                                     |
|---|-------------------------------------|
| <b>Bulk density:</b>                                  | 150 +/- 15 kg/m <sup>3</sup>        |
| <b>Bead geometry:</b>                                 | spherical                           |
| <b>Typical bead diameter:</b>                         | 1.4 - 3.15 mm<br>(> 90 % by weight) |
| <b>Pentane content</b><br>(at the time of packaging): | > 1.5 % by weight                   |
| <b>Water content</b><br>(at the time of packaging):   | < 0.5 % by weight                   |
| <b>Colour:</b>  | anthracite                          |

Minor colour fluctuations between individual batches cannot be excluded.

### Packaging and storage:

**sunpor<sup>®</sup> HP150** is shipped in octabins (height max. 192 cm) on wooden pallets (114 x 114 cm) containing 280 kg net of material.

The octabins are not weather- or water-proof and must therefore not be exposed to outdoor conditions.

It is not recommended to stack octabins more than one layer high. In case of double-stacking octabins under controlled conditions, the recommendations laid out in the document „**Instructions for stacking sunpor octabins**“ must be followed.

In order to obtain the desired properties of **sunpor<sup>®</sup> HP150**, the material should be stored below 20 °C and be processed within one month.

### Processing:

#### > Pre-expansion:

**sunpor<sup>®</sup> HP150** will be delivered as ready for use material, therefore a pre-expansion of the material is not necessary.

#### > Moulding:

**sunpor<sup>®</sup> HP150** can be processed in industry standard automatic moulding machines. Compared with standard EPS, steaming should be increased because optimum fusion is only achieved at higher temperatures and steam pressures.

To prevent moulded parts from swelling a sufficient cooling period is essential. The final density of the moulded parts will be slightly higher than the bulk density of the material.

It is recommended to store plate-shaped parts direct after demoulding with spacer to each other to prevent reexpansion of polystyrene beads on the surface.

### Shipping:

|                       |                             |
|-----------------------|-----------------------------|
| <b>UN-Number:</b>     | 2211                        |
| <b>Designation:</b>   | Polymeric beads, expandable |
| <b>Class:</b>         | 9                           |
| <b>Packing Group:</b> | III ADR                     |

### Safety instructions:

Flammable pentane-air mixtures may be generated during storage and processing of **sunpor<sup>®</sup> HP150**. For this reason, adequate ventilation must be ensured (LEL pentane 1.3 % by volume).

The blowing agent pentane escapes relatively slowly from mouldings. Thus, when cutting recently moulded parts, 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.