

# sunpor® A145

## Technical data sheet | Revision: 10

### Description:

**sunpor® A145** is expandable polystyrene granulate (EPS) which can be processed into rigid foam boards.

**sunpor® A145** contains polymeric flame retardant and is certified to DIN 4102/B1 and EN 13501-1 class E.

### Applications:

**sunpor® A145** is mainly processed into impact sound insulation blocks. Due to their impact absorbing qualities impact sound insulation blocks are placed below the floor to dampen the noise made by steps.

The ratio between manufactured thickness (dL) and thickness under load (dB) is determined by the compression degree and the temperature, as well as by the intermediate storage time between moulding and pressing of the blocks

<b>Density range:</b>	8 - 14 kg/m <sup>3</sup>
<b>Granulate geometry:</b>	bead-shaped granulate
<b>Typical granulate diameter:</b>	1.85 - 2.5 mm (> 95 % by weight)
<b>Pentane content</b> (at the time of packaging):	> 5.5 % by weight
<b>Water content</b> (at the time of packaging):	< 0.4 % by weight

### Packaging and storage:

**sunpor® A145** 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.

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® A145**, 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 **sunpor® A145** can be pre-expanded to densities of approx. 14 kg/m<sup>3</sup>. Lower densities can be achieved by double or triple pre-expansion.

**sunpor® A145** has been treated with an antistatic agent to prevent a build-up of electro-static charge during transport.

#### > Intermediate aging:

Intermediate aging should be between 10 and 24 hours.

#### > Moulding:

**sunpor® A145** can be processed in industry standard block moulds and presses.

### 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® A145**. 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.