

sunpor[®] A245

Technical data sheet | Revision: 11

Description:

sunpor[®] A245 is expandable polystyrene granulate (EPS) which can be processed into rigid foam boards.

sunpor[®] A245 contains polymeric flame retardant and is certified to DIN 4102/B1 and EN 13501-1 class E.

Applications:

sunpor[®] A245 is mainly processed into PS 15 - 20 blocks used for external thermal insulation composite systems (ETICS). According to DIN 18164/2 insulating foam boards with a density of 15 kg/m³ are, as EPS-W 15, suitable for thermal insulation applications without special loads, such as:

- cavity wall insulation
- interior wall insulation
- interior roof insulation

EPS foam boards with a minimum density of 20 kg/m³ are also used for thermal insulation applications under mechanical loads.

Density range:	14 - 20 kg/m ³
Granulate geometry:	bead-shaped granulate
Typical granulate diameter:	1.0 - 1.85 mm (> 95 % by weight)
Pentane content (at the time of packaging):	> 5.7 % by weight
Water content (at the time of packaging):	< 0.4 % by weight

Packaging and storage:

sunpor[®] A245 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[®] A245**, 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[®] A245** can be pre-expanded to densities of approx. 14 kg/m³. Lower densities can be achieved by double pre-expansion.

sunpor[®] A245 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:

sunpor[®] A245 can be processed in industry standard block moulds.

Shipping:

UN-Number:	2211
Designation:	Polymeric beads, expandable
Class:	9
Packing Group:	III ADR

Safety instructions:

Flammable pentane-air mixtures may be generated during storage and processing of **sunpor[®] A245**. 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.