SUNPOR® A 243

Technical Notice
H-21-TM-243 Status: 05

SUNPOR® A 243 is an expandable polystyrene granulate (EPS) which can be processed into foam blockware.

Applications:

Low- and medium-density foam blocks made from SUNPOR® A 243 are used as thermal insulation boards for construction applications without special requirements concerning flame resistance or as packaging blanks.

Density range:

9 -15 kg/m^3

Granulate geometry:

SUNPOR® A 243 is supplied as a bead-shaped granulate.

Granulate diameter:

1,0 – 1,6 mm (>90Gew.%)

Pentane content:

> 5.0 % (at the time of packaging)

Water content:

< 0.4% by weight (at the time of packaging)

Packaging and storage:

SUNPOR® A 243 is shipped in octabins (height 176 cm) on wooden pallets (114 x 114 cm), containing 1150 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 SUNPOR® A 243, the raw material should be stored below 20 °C and be processed within one month.

Processing:

Preexpansion:

With discontinuously operating, state-of-the-art preexpanders SUNPOR® A 243 can be preexpanded to densities of approx. 14 kg/m^3.

Lower densities can be achieved by double preexpansion or in optimized machines.

SUNPOR® A 243 has been treated with an antistatic agent to prevent a buildup of electrostatic charge during transport.

Intermediate aging:

Intermediate aging should be between 10 and 48 hours.

Moulding:

SUNPOR® A 243 can be processed in industry-standard blockmoulds.
If a regenerative agent is added care has to be taken that the density of the regenerative agent equals the preexpansion density as closely as possible to prevent a segregation during production. Normally, a vacuum is used in the blockmould with high densities, while the vacuum sometimes has to be reduced with low densities.

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 SUNPOR® A 243. For this reason adequate ventilation must be ensured (UEG 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 buildup of electric charges has to be prevented.

Please note:

This Technical Notice reflects our current knowledge.
The suitability for concrete applications must be verified by the processor in a technical and legal context.
Subject to technical changes.