

sunpor[®] A243

Technical data sheet | Revision: 08

Description:

sunpor[®] A243 is expandable polystyrene granulate (EPS) which can be processed into foam blocks.

Applications:

Low and medium-density foam blocks made from sunpor[®] A243 are used as thermal insulation boards for construction applications without special requirements concerning flame resistance, or for packaging applications.

Density range:	9 - 15 kg/m ³
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

Packaging and storage:

sunpor[®] A243 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 sunpor[®] A243, 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[®] A243 can be pre-expanded to densities of approx. 14 kg/m³.

Lower densities can be achieved by double pre-expansion or in optimized machines.

sunpor[®] A243 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 48 hours.

> Moulding:

sunpor[®] A243 can be processed in industry standard block moulds.

If recycled material is added, care has to be taken that the density of the recycled material equals the pre-expansion density as closely as possible to prevent segregation during production.

Normally, vacuum is used in the block mould 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[®] A243. 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.