sunpor® A355

Technical data sheet | Revision: 10

Description:

sunpor® A355 is expandable polystyrene granulate (EPS) which can be processed into rigid foam boards and contour mouldings. **sunpor® A355** contains polymeric flame retardant and is certified to DIN 4102/B1 and EN 13501-1 class E.

Applications:

sunpor® A355 is processed into PS 20 blocks, i.e. load-bearing thermal insulation, and external thermal insulation composite systems (ETICS). It is also suitable for the production of blocks with a specific gravity of 15 - 30 kg/m³ and EPS contour mouldings.

Boards with densities of 25 or 30 kg/m³ can also be used for walk-on and drive-on areas, as well as for surfaces planted with greenery.

Density range:	15 - 25 kg/m3
Granulate geometry:	bead-shaped granulate
Typical granulate diameter:	0.6 - 1.1 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® A355 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® A355**, 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® A355** can be pre-expanded to densities of approx. 15 kg/m³. **sunpor® A355** 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® 355 can be processed in industry-standard block moulds and shape moulding machines.

The material allows the production of a wide range of moulded parts and, by varying the steaming and filling gap parameters, the degree of fusion and the surface structure can be optimized for specific applications. Good mould-filling properties are achieved with minimum wall thicknesses of approx. 8 mm.

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® A355**. 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.

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