

Lambdapor® 753

Technical data sheet

Description:

Lambdapor® 753 is an expandable polystyrene granulate (EPS) which can be converted into insulating boards and shape molded parts with reduced thermal conductivity and densities between 18 and 30 kg/m³.

Lambdapor® 753 contains a flame retardant and conforms to DIN 4102/B1.

Granulate geometry:

Screen limits: 0.6–1.5 mm

Typical bead size: 0.7–1.3 mm

Pentane content:

Approx. 5% weight (at the time of packaging)

Water content:

< 0.3% weight

Colour:

The special infrared blocking additives cause the silvery colour of the prefoamed beads.

Packaging and storage:

Lambdapor® 753 is supplied in Oktabins (1,150 kg). The packaging is not rainproof and must therefore not be exposed to outdoor conditions. In order to obtain the desired properties of Lambdapor® 753, the raw material should be stored below 20°C and be used up within a month.

Shipping:

ADR-marking: substance no. 2211: Polymeric beads, expandable

Class: 9

Packing group: ADR

Processing:

Preexpansion:

With discontinuously operating, state-of-the-art preexpanders Lambdapor® 753 can be preexpanded down to densities of approx. 18 kg/m³. To achieve lower densities, Lambdapor® 753 should be preexpanded in two stages.

With batch preexpanders it is possible that the light sensors do not recognize the material in the preexpansion chamber because of the colour. This may lead to a failure of the automatic steam switch-off. To prevent this occurring the steaming time should be fixed or the sensor setting modified.

Intermediate storage:

Intermediate storage period should be between 8 and 24 hours.

Moulding:

Lambdapor® 753 can be processed on commercially available block moulds and shape moulding machines.

Steaming should be reduced compared to other EPS types as the usual steaming would result in extended cycle times. **Lambdapor® 753** yields very well fused insulating boards, even with reduced steaming.

During the processing of **Lambdapor® 753** small amounts of dust can be created by abrasion of the beads. As the dust is mainly originating from the preexpansion process appropriate measures have to be taken to extract the dust in the molders plant.

Cutting:

For hot wire cutting of the blocks the use of oscillating wires is recommended. All other settings can be the same as for white material. Prior to this operation the block should be stored for a sufficiently long period, to ensure that it is essentially free from pentane.

Safety instructions:

Flammable pentane air mixtures may be generated during storage and processing of **Lambdapor® 753**. Adequate ventilation must be ensured for this reason. All conceivable sources of ignition must therefore be kept away and the generation of electric charges prevented.

Packaging of boards or moulded parts from Lambdapor® 753:

We recommend that **Lambdapor® 753** moulded parts are packed in opaque plastic film, as their exposure to direct sunlight can result in fading and distortion.

Please note:

This notice reflects our current knowledge. The suitability for concrete applications must be verified by the processor from technical and legal point of view.

Subject to technical change.