terrapor® 3

Technical data sheet | Revision: 08

Description:

terrapor® 3 is processed into PS 30 blocks, i.e. load-bearing thermal insulation, and into high-density EPS contour mouldings, especially perimeter insulation foam boards with reduced water absorption.

terrapor® 3 contains polymeric flame retardant and is certified to DIN 4102/B1 and EN 13501-1 class E.

Density range:	20 - 40 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

Colour:

- **white**
- **blue**
- **green**
- **pink**
- **anthracite**
- **yellow**

Packaging and storage:

terrapor® 3 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 **terrapor® 3**, 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 **terrapor® 3** can be pre-expanded to densities of approx. 18 kg/m³. **terrapor® 3** 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:**
  terrapor® 3 can be processed in industry-standard block moulds and automatic 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:

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

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Safety instructions:

Flammable pentane-air mixtures may be generated during storage and processing of **terrapor® 3**. 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 formationof 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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