

# cerapor<sup>®</sup> 723u

## Technical data sheet | Revision: 04

### Description:

**cerapor<sup>®</sup> 723u** is expandable polystyrene granulate (EPS) which can be processed into foam boards with reduced thermal conductivity in a recommended density range from 18 – 22 kg/m<sup>3</sup>.

**cerapor<sup>®</sup> 723u** contains polymeric flame-retardant and is certified to DIN 4102/B1 and EN 13501-1 class E.

<b>Density range:</b>	18 - 22 kg/m <sup>3</sup>
<b>Granulate geometry:</b>	bead-shaped granulate
<b>Screen limits:</b>	1.0 - 2.4 mm
<b>Typical granulate diameter:</b>	1.1 - 1.8 mm (> 90 % by weight)
<b>Pentane content</b> (at the time of packaging):	> 4,5 % by weight
<b>Water content</b> (at the time of packaging):	< 0,3 % by weight
<b>Color:</b>	ivory

### Packaging and storage:

**cerapor<sup>®</sup> 723u** 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 **cerapor<sup>®</sup> 723u**, 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 **cerapor<sup>®</sup> 723u** can be pre-expanded to densities of approx. 16 kg/m<sup>3</sup>.

#### > Intermediate aging:

Intermediate aging before block moulding should be between 6 and 48 hours.

#### > Moulding:

**cerapor<sup>®</sup> 723u** can be processed in industry standard block moulds.

The steaming should be lower in pressure compared to other white EPS materials, otherwise long cycle time will be the consequence.

**cerapor<sup>®</sup> 723u** will yield very good fusion of the beads at comparably low steam pressures.

### Shipping:

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

### Safety instructions:

Flammable pentane-air mixtures may be generated during storage and processing of **cerapor<sup>®</sup> 723u**. 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.