

# repor<sup>®</sup> 33

Technical data sheet | Revision 04 | December 2024

## Description:

**repor<sup>®</sup> 33** is expandable polystyrene granulate (EPS) which can be processed into moulded foam parts and contains 33 % of „post consumer“ recycled EPS. **repor<sup>®</sup> 33** bears the flustix RECYCLED trust-mark.



## Applications:

Low and medium-density moulded foam parts made from **repor<sup>®</sup> 33** are used for packaging applications.

<b>Density range:</b>	15 - 30 kg/m <sup>3</sup>
<b>Granulate geometry:</b>	bead-shaped granulate
<b>Screen limits:</b>	0.6 - 1.5 mm
<b>Typical granulate diameter:</b>	0.7 - 1.2 mm (> 90 % by weight)
<b>Pentane content</b> (at the time of packaging):	> 5.0 % by weight
<b>Water content</b> (at the time of packaging):	< 0.3 % by weight

## Packaging and storage:

**repor<sup>®</sup> 33** 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 **repor<sup>®</sup> 33**, 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 **repor<sup>®</sup> 33** can be pre-expanded to densities of approx. 15 kg/m<sup>3</sup>.

**repor<sup>®</sup> 33** 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:

**repor<sup>®</sup> 33** can be processed in industry standard moulding machines.

When moulding complex parts, no recycled material should be added, as otherwise the proper filling of thinwalled sections cannot be guaranteed.

## 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 **repor<sup>®</sup> 33**. For this reason, adequate ventilation must be ensured (LEL pentane 1.3 % by volume).

The blowing agent pentane escapes relatively slowly from moulded parts. Thus, when cutting recently moulded parts, 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.