

Description:

Suncolor[®] protect is a bulk-dyed, expandable polystyrene granulate (EPS), which can be processed into coloured, moulded parts with a wall thickness greater than 6 mm and a density > 35 kg/m³. Main application of Suncolor[®] protect is the helmet production.

Granulate geometry:

Suncolor[®] protect-s (= sticks) : is manufactured by an extrusion process and supplied in form of a cylindrical granulate.

Granulate diameter: Approx. 0.65 mm
Granulate length: Approx. 1.8 mm

Pentane content:

> 3.0% by weight

Water content:

< 0.3% by weight.

Colour:

black

Minor colour fluctuations between individual batches cannot be excluded. Colour variation may also result from differences in the density of the foam.

Packaging and storage:

Suncolor[®] protect-s is supplied in Octabins (1000 kg) and steel drums (125 kg).

Suncolor[®] protect-b is supplied in Octabins (1100 kg) and steel drums (125 kg).

The packaging is not rainproof and must therefore not be exposed to outdoor conditions.

In order to obtain the desired properties of Suncolor[®] protect, the raw material should be stored below 20°C and be used up within 6 or 12 months.

Shipping:

ADR-marking: substance no. 2211:

Polymeric beads, expandable

Class: 9

Packing group: III ADR

Processing:

Pre-expansion:

With discontinuously operating state-of-the-art pre-expanders, Suncolor[®] protect can be pre-expanded to densities of approximately >35 kg/m³.

However, it is important that the pre-expanded beads are completely expelled from the pre-expander after each cycle because any beads

remaining in the machine will become lighter in weight and in colour after repeated pre-expansion; this can lead to irregularities in the distribution of colour in the finished parts.

The special gloss finish absorbs somewhat more moisture during the pre-expansion than normal EPS raw materials. For this reason an efficient fluidised bed is required.

Intermediate aging:

With bulk densities between 35 and 80 kg/m³, the intermediate aging time should be minimum 24 hours.

Moulding:

Suncolor[®] protect can be processed in industry standard automatic moulding machines.

Special steaming settings are not required.

Safety instructions:

Flammable pentane air mixtures may be generated during storage and processing of Suncolor[®] protect. 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.

When opening the steel drums, it is important to ensure that any excess pressure is released slowly.

Please note:

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

