

# Suncolor<sup>®</sup> 106

Technical Notice

H-21-TM- Suncolor<sup>®</sup>106 Revision: 00

## **Description:**

Suncolor<sup>®</sup> 106 is an expandable polystyrene based polymer (Styrene-Acylnitril-Copolymer) with enhanced resistance against non aromatic grease and oil compared to regular EPS.

Suncolor<sup>®</sup> 106 is produced by an extrusion process and has flame retardant properties.

## **Typical Applications:**

Insulation of oil tanks, packaging of machine parts and tools, products for marine applications

## **Granulate geometry:**

Bead size: 0,6 – 1,2 mm (>95%)

The material may contain minor quantities of abrasion.

## **Pentane content:**

> 4.0% by weight

## **Water content:**

< 0.3% by weight.

## **Colour:**

Natural white

## **Packaging and storage:**

Suncolor<sup>®</sup> 106 is supplied in Oktabins (1100 kg) or 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<sup>®</sup> 106, the raw material should be stored below 20°C and be processed within 6 months.

## **Processing:**

### **Pre-expansion:**

With discontinuously operating state-of-the-art pre-expansions machines, Suncolor<sup>®</sup> 106 can be pre-

expanded like normal EPS to densities of approximately 20 kg/m<sup>3</sup>.

### **Intermediate aging:**

With bulk densities between 20 and 40 kg/m<sup>3</sup>, the intermediate aging time should be between 10 and 24 hours.

### **Moulding:**

Suncolor<sup>®</sup> 106 can be processed in industry standard automatic moulding machines.

Special steam settings are not required. The cooling period should be longer than for other types of EPS to prevent the moulded parts from swelling.

Suncolor<sup>®</sup> 106 should not be moulded to a density lower than 20 kg/m<sup>3</sup>, as this may lead to moulding difficulties (collapse of the moulded parts, difficulties with demoulding, unsatisfactory foam quality).

### **Shipping:**

ADR-marking: substance no. 2211:

Polymeric beads, expandable

Class: 9

Packing group: III ADR

### **Safety instructions:**

Flammable Pentane/air mixtures may be generated during storage and processing of Suncolor<sup>®</sup>106. 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.

