



versalis

## TECHNICAL DATA SHEET

[Mbx.info.styrenics@versalis.eni.com](mailto:Mbx.info.styrenics@versalis.eni.com)

# Extir<sup>®</sup>

Expandable polystyrene

# A 3000 AE

### Product description

Extir A 3000 AE is a flame retardant expandable polystyrene in the form of spherical beads of medium particle size, containing pentane as blowing agent.

Extir does not contain CFC or HCFC.

Extir A 3000 AE is used for production of shaped mouldings with section greater than 8 mm and of medium-high density blocks.

### Technical data

Bulk density	kg/m <sup>3</sup>	<b>590 - 630</b>
Particle size	mm	<b>0.6 - 1.0</b>
Minimum apparent density		
• on a continuous pre-expander after one expansion	kg/m <sup>3</sup>	<b>17</b>
• on a continuous pre-expander after two expansions	kg/m <sup>3</sup>	<b>not appl.</b>
• on a discontinuous pre-expander	kg/m <sup>3</sup>	<b>not appl.</b>
Density range normally used	kg/m <sup>3</sup>	<b>16 - 30</b>

### Applications

Extir A 3000 AE is used mainly in building and industrial packaging applications where, for legislative or safety reasons, the use of a flame retardant material is required.

Typical applications are:

- industrial packaging (e.g. cathode ray tube protection)
- medium / high density blocks for thermal insulation
- window dressing, theatre backgrounds
- moulded panels for underfloor heating
- moulded or block-cut building components

## Processing

Extir A 3000 AE can be easily pre-expanded over a wide density range from 15 to 30 kg/m<sup>3</sup>.

The recommended ageing time before moulding obviously depends on the pre-expanded density and ranges from 6 to 72 hours.

Extir A 3000 AE can be moulded both on shape or block moulding machines.

## General information

It is recommended to keep the product in a dry well ventilated store between 15-20°C.

For product packaged in octabins the guaranteed shelf-life is one month; product in steel drums has a six months guaranteed shelf-life.

During the processing of Expandable Polystyrene any sparks or naked flames must be avoided and smoking should be forbidden. An adequate electrical earthing of machinery and of pneumatic transport lines is recommended.

For further information concerning storage, packaging and processing precautions please refer to "Styrenics - Technical data sheets" and to the "Extir Safety Data Sheet".

Regarding "flame retardant" properties, articles made from Extir AE are officially certified "B1 nach DIN 4102".

The action of the flame retardant additive is exerted only after the elimination of blowing agent and, therefore, only after Extir AE has been transformed into foamed articles (suitably aged where necessary).

Issue 01/02

All indicated data refer to natural grades.

The data, information and suggestions are provided for guidance purposes only.

The Company accepts no responsibility for the results obtained therefrom, as neither for their utilization in infringement of possible patent rights.

However the Company will provide the guaranteed values for each product on demand.