



versalis

TECHNICAL DATA SHEET

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Extir[®]

Expandable polystyrene

A 2000 AE

Product description

Extir A 2000 AE is a flame retardant expandable polystyrene in the form of spherical beads of fine particle size, containing pentane as blowing agent.

Extir does not contain CFC or HCFC.

Extir A 2000 AE is used for production of shaped mouldings with thin sections and with a good surface finishing.

Technical data

Bulk density	kg/m ³	590 - 630
Particle size	mm	0.4 - 0.75
Minimum apparent density		
• on a continuous pre-expander after one expansion	kg/m ³	18
• on a continuous pre-expander after two expansions	kg/m ³	not appl.
• on a discontinuous pre-expander	kg/m ³	not appl.
Density range normally used	kg/m ³	18 - 30

Applications

Extir A 2000 AE is used mainly in thin section packaging where, for legislative or safety reasons, the use of a flame retardant material is required.

Typical applications are:

- thin section packaging (from 5 to 10 mm)
- decorative ceiling panels
- baby/child safety seat

Processing

Extir A 2000 AE can be easily pre-expanded over a wide density range from 17 to 30 kg/m³.

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

Extir A 2000 AE can be moulded on all types of shape 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).

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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.