



versalis

TECHNICAL DATA SHEET

Extir®
Expandable polystyrene

VERDI VM A2000 AE

Product description

Extir Verdi VM A2000 AE is an HBCD-free 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 Verdi VM A 2000 AE is an improvement of A 2000 AE showing an enhanced thermal conductivity as well as VR A2000 AE.

Extir Verdi VM A2000 AE is used for production of shaped mouldings with thin sections.

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	N
• on a discontinuous pre-expander	kg/m ³	17
Density range normally used	kg/m ³	18 - 30

Applications

Extir Verdi VM A2000 AE has an improved thermal conductivity value, especially at low density. Extir Verdi VM A2000 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:

- thin section packaging (eg. electro-mob connectivity)
- molded panels for under-floor heating and roofing
- light mortars for buliding insulation



Processing

Extir Verdi VM 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 Verdi VM A2000 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 grounding 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, Extir AM AE raw materials are officially certified Euroclass E according to EN 13163 Annex E. Products bearing French certification (LNE) or German certification (B1 nach DIN 4102) are provided on request.

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).

