

DM 3000 AE GEO GREEN

Technical data sheet
info.styrenics@versalis.eni.com

Flame retardant - HBCD-free - Does not contain CFC and HCFC-Reduced water absorption

Extir® DM 3000 AE GEO GREEN is a green-coloured expandable polystyrene with flame retardant properties and reduced water absorption by vapor diffusion (EN 12088) and long-term immersion (EN 12087). Extir® DM 3000 AE GEO GREEN beads have a spherical shape and contain pentane as a blowing agent. Extir® DM 3000 AE GEO GREEN is used for the production of medium-high density blocks and molded parts with walls thicker than 8 mm. Extir® DM 3000 AE GEO GREEN is HBCD-free and does not contain CFCs or HCFCs. The product is not suitable for food contact.

Applications

Extir® DM 3000 AE GEO GREEN is mainly used in the construction sector. Typical applications are:

- Foundation insulation
- Perimetric insulation

Technical Informations

Beads size	mm	0,6-1,0
Bulk density	kg/m ³	590-630
Typical pentane content	%	<6,5
Minimum apparent density		
on a continuous pre-expander after one expansion	kg/m ³	17
on a continuous pre-expander after two expansions	kg/m ³	non appl.
on a discontinuous pre-expander	kg/m ³	16
Usual density range	kg/m ³	20-35

For more information, please refer to the "Extir for building" brochure

Processing

Extir® DM 3000 AE GEO GREEN can be processed in three steps.

Pre-expansion	Extir® DM 3000 AE GEO GREEN can be pre-expanded to the densities indicated above with common continuous or discontinuous expanders.
Aging	The aging time of the expanded beads is between 6 and 48 hours. It may vary according to the desired density and climate conditions.
Molding	Extir® DM 3000 AE GEO GREEN can be processed in common molds and block machines .

The final products are characterized by very low water absorption.

Certifications

✓Euroclass E ✓LNE, on demand ✓B1 nach DIN4102, on demand

Extir® DM 3000 AE GEO GREEN raw material are officially certified Euroclass E EN 13501-1, compliant with EN 13163 Annex E. For the products bearing French certification (LNE) or German certification (B1 nach DIN 4102), certificates are provided on request. The flame retardant properties of the finished product are effective only after blowing agent removal and after a proper aging time.

Storage



Keep the product in a dry well ventilated store between 15- 20°C.



For product packaged in octabins and stored correctly, the guaranteed shelf-life is one month from delivery.



The boards and molded parts made of DM 3000 AE GEO GREEN should not be exposed to solar radiation and packed in transparent film. The use of an opaque or white film is strongly recommended.

Safety

During the processing of Expandable Polystyrene, an explosive atmosphere could be created due to air / pentane mixtures. For this reason, all possible causes of ignition such as naked flames or sparks must be avoided, it is necessary to work in adequately ventilated places and a smoking should be forbidden. Adequate electrical grounding of machinery and of pneumatic conveyance lines is recommended. For further information relating to storage, packaging and processing precautions, please refer to the Technical Bulletin "Styrenics - Technical data sheets" and to the "Extir Safety Data Sheets".