

Polimeri Europa Extir® E 3000 AE Expandable Polystyrene (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS)

Material Notes:

Extir E 3000 AE is a flame-retardant expandable polystyrene in the form of spherical beads of medium particle size, with a low pentane content as blowing agent. Extir does not contain CFC or HCFC. This grade is used for the very fast moulding cycle production of shape and block mouldings with a medium to very high density. It shows a very short maturing time, even at very high density, excellent moulding processability, good fusion, good surface finishing and very good dimensional stability. Applications: Extir E 3000 AE is used mainly in medium section, medium / high density packaging 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 • moulded panels for underfloor heating • moulded insulating drainage panels • moulded or block-cut building components 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 sparkle or flame 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, 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). Processing: Extir E 3000 AE can be easily pre-expanded on conventional equipment over a wide density range (from 19 to 55 kg/m³), despite its low pentane content. This product needs minimum maturation times (from 1 to 48 hours), even at high density. Moreover the steaming cycle is nearly not influenced by the maturation time. Due to excellent processability and low pentane content, it is possible to operate with very fast cycle times (mainly by reducing the cooling times) and with low steam pressures. Moulded items and blocks exhibit a very high fusion level, excellent surface aspect, good mechanical properties and an excellent dimensional stability. Extir E 3000 AE can be moulded on all types of shape and block moulding machines. Blocks are cut into sheets of the required thickness by means of hot and/or oscillating wires (installation of an exhaust system to remove fumes and dust is recommended). Information provided by Polimeri Europa

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Extir-E-3000-AE-Expandable-Polystyrene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Bulk Density	0.590 - 0.630 g/cc	0.0213 - 0.0228 lb/in ³	
Density	0.0200 - 0.0550 g/cc	0.000723 - 0.00199 lb/in ³	
Apparent Bulk Density	0.0190 g/cc	0.000686 lb/in ³	On a discontinuous pre-expander
	0.0220 g/cc	0.000795 lb/in ³	On a continuous pre-expander after one expansion
Particle Size	600 - 1000 µm	600 - 1000 µm	

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