

Polimeri Europa Extir® EH 3000 Expandable Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Expanded Polystyrene (EPS)

Material Notes:

Extir EH 3000 is an 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. Extir EH 3000 is used for the very fast cycle production of shape mouldings and block moulding with a medium to very high density. It is also characterised by very short maturing time, even at very high density, excellent moulding processability, good fusion, good surface finishing and a very good dimensional stability. Applications: Extir EH 3000 is a very fast cycling grade used for production of moulded items with wall sections greater than 8 mm and also of skin moulded articles. It can also be used for the production of medium / high density blocks. Finished products exhibit high fusion, high resistance to impact / mechanical stress, and an outstanding dimensional stability. Extir EH 3000 is suitable for the production of food packaging and for food contact applications. Typical applications are: • industrial and protection packaging • internal shells for motorcycle and bicycle crash helmets • containers and loaders for automated manufacturing in the electronics sector • returnable packaging and pallets • medium-high density blocks for thermal insulation. 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 spark 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". This grade complies by composition with the requirements set by the main regulations for plastics intended for food contact (including the EEC directive 90/128). Processing: Extir EH 3000 can be easily pre-expanded on conventional equipment over a wide density range (from 19 to 80 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 its 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 EH 3000 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-EH-3000-Expandable-Polystyrene.php

Physical Properties	Metric	English	Comments
Bulk Density	0.590 - 0.630 g/cc	0.0213 - 0.0228 lb/in³	
Density	0.0200 - 0.0800 g/cc	0.000723 - 0.00289 lb/in³	
Apparent Bulk Density	0.0190 g/cc	0.000686 lb/in³	On a discontinuous pre-expander
	0.0230 g/cc	0.000831 lb/in³	On a continuous pre-expander after one expansion
Particle Size	600 - 1100 µm	600 - 1100 µm	

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