

Peripor® E Series



Application

For the production of moldings primarily in the high bulk density range for applications involving stresses due to compression and moisture.

Fire characteristics in conformity with:

- DIN 4102 – B 1 (flame-retardant)
- EN ISO 13501-1-E

For additional information pertaining to the fire behavior please contact the local BASF representative.

Product description

Expandable polystyrene (EPS) containing uniformly distributed polymeric flame retardant.
Blowing agent: pentane (~4.5 %).

Product	Bead size range	Typical bead size	
Peripor® 200 E	1.1-2.0mm	0.9 - 2.1 mm by weight	≥94 %
Peripor® 300 E	0.7-1.1 mm	0.6 - 1.2 mm by weight	≥92 %

Form as supplied

Peripor® E is supplied in the form of rounded particles.

Storage

Peripor® E is usually supplied in cardboard containers (octabins). It can be stored in these unopened receptacles for three months before processing.

The octabins should not be exposed to weather conditions (rain, water, snow, frost, and sunlight) and must be protected from damage. They should always be stored in a cool place (below 20 °C if possible) to minimize loss of blowing agent.

Once containers have been opened, their contents should be used as soon as possible. In the meantime the octabins should be kept tightly sealed.

It is not recommended to stack octabins more than one layer high. In case of double-stacking octabins under controlled conditions, a strong plywood board must be placed between the stacked containers.

Octabins covered with a plastic hood and/or shrink-wrapped should never be double stacked.

Product	Normal bulk density range	Recommended intermediate aging time
Peripor® 200 E	22 - 35 kg/m ³	10 - 48 h
Peripor® 300 E	25 - 35 kg/m ³	10 - 48 h

Processing

In order to conform with the Fire Test Certification, materials from different Suppliers should not be mixed.

Peripor® E products are converted to expanded foam in 3 stages.

■ Pre-expansion

For Peripor® E products we do recommend to use discontinuous preexpander equipment. The intermediate aging time should be selected in dependence on the bulk density, the ambient temperature and the intended application.

■ Intermediate aging

The intermediate aging time should be selected in dependence on the bulk density, the ambient temperature and the intended application.

■ Final expansion

Peripor® E products are foamed out to expanded foam in commercial block molds or automatic molding machines. Moldings can be manufactured at relatively high mold temperatures with short cycle times and low specific steam consumption. Good mold-filling can be achieved even in the case of complicated molds.

Safety notes

It should be noted, that during the processing and storage of Peripor® E, as well as of foams produced from it, explosive blowing agent/air mixtures may be formed by diffusing blowing agent (pentane, LEL 1.3 vol%).

Therefore, adequate ventilation must be provided at all times. All conceivable ignition sources (open flames, welding sparks, electrical sparks etc.) must be kept away and electrostatic charging must be avoided. Smoking must be strictly prohibited!

The contents of open receptacles should be processed quickly. The containers are to be kept well sealed in the meantime.

The transportation of Peripor® E or of expanded foams freshly made from it in unventilated or closed means of conveyance is not permitted.

Further information regarding transports is given in the respective product safety data sheet.

Biological action

Pentane escapes during the storage and processing of Peripor® E. Care is to be taken, especially when cutting the expanded foams with heated wires, to ensure the resultant vapours are removed by suction since, in addition to pentane, they also contain small amounts of styrene.

The maximum allowable concentration values for styrene and pentane are to be observed.

Food legislation

Foams made of Peripor® E products shall not be used in direct contact with food.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.