

CIRCULUM®

GF-714e/p

DESCRIPTION

GF-714e/p is a flame retardant (FR) expandable polystyrene grade with reduced thermal conductivity containing graphite. Pentane is used as a blowing agent and a brominated polymeric flame retardant as an FD additive. The product is delivered in the form of non-spherical beads with a bulk density of about 0.6 g/cm³ and is available in 1100 kg octabins (GF-714p) and 1050 kg octabins (GF-714e).
GF-714e/p contains at least 10% rGPPS (recycled polystyrene).

APPLICATIONS

The properties of **GF-714e/p** make it suitable for the production of flame retardant light and heavy insulation board by continuous machine or block process in accordance with DIN 4102-1, class B1 and ISO EN 11925-2 Class E

PROCESSING

The processing conditions of **GF-714e/p** depend on the combination of the product and processing equipment used. Optimal settings have to be adjusted for each combination. Some general processing conditions are given below:

Prefoaming	The steam has to be saturated at a temperature of 100 - 110 °C. To reach higher densities (> 30 kg/m ³) it is recommended to mix the steam with air.
Conditioning	Depends on the density, generally 12 - 24 hours is recommended.
Moulding	The machine should be fed with saturated steam with a max pressure of about 2 bar. Steaming time depends on the equipment used as well as the size and required strength of the final product. Therefore, all machines have to be adjusted individually. Equipment using vacuum is recommended to reduce cycle times and to increase product strength.
Cutting	Hot wire cutting - oscillating or stationary wires - is recommended. Temperature of the wires should be about 200 - 300 °C.

TECHNICAL INFORMATION

TYPICAL PHYSICAL PROPERTIES

Raw material	Value	Unit	Test method
Pentane content	4.5-5.5	%	Gas chromatography
Monomer level	< 0.1	%	Gas chromatography
Main bead size distribution	0.7 – 1.1	mm	Image analyser

STORAGE AND HANDLING

GF-714e/p should be stored below 20 °C. Avoid direct sunlight and keep away from any source of ignition.

To ensure the best performance in prefoaming and moulding, the storage time should not exceed one month.

SAFETY

GF-714e/p is not classified as a dangerous material. A Safety Data Sheet is available on request. Avoid generating dust. All equipment should be properly grounded. Releases pentane during processing, which might form a flammable/explosive vapour - air mixture. Use proper ventilation.

RECYCLING

GF-714e/p is suitable for recycling using modern methods of grinding, cleaning and regranulating. In-house production waste should be kept clean to facilitate direct recycling. Please contact your BEWI RAW representative for more details on various aspects of safety, recovery and disposal of the product.

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