

## CIRCULUM<sup>®</sup>

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### BIOFOAM<sup>®</sup> Loose fill

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#### DESCRIPTION

**BioFoam** is an expanded poly lactic acid foamed bead

The products are delivered in the form of spherical beads with a bulk density between 16-35 g/L. **BioFoam** is available in 1.8m<sup>3</sup> big bags.

#### APPLICATIONS

The properties of **BioFoam** loose fill make it suitable for filling hollow spaces, beanbags and pillows.

#### PROCESSING

The processing conditions of **BioFoam** 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**

Before prefoaming the beads need to be impregnated with CO<sub>2</sub> in a pressure vessel. The impregnated beads can be foamed with hot air or a mixture of steam with air.

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## TECHNICAL INFORMATION

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### TYPICAL PHYSICAL PROPERTIES

#### Raw material

	<u>Value</u>	<u>Unit</u>	<u>Test method</u>
Monomer level	< 0.1	%	Gas chromatography
Main bead size distribution	0.8 – 1.6	mm	Image analyser

#### End product

Compressive stress (10 %), (kPa), EN 826		35 <u>kg/m<sup>3</sup></u> 160	
Heat conductivity ( $\lambda_{10}$ ), (W/mK), EN 12667		0.035	

### STORAGE

Protect from direct sunlight and other weather conditions (rain, wind, frost etc.).

### SAFETY

In transport **BioFoam** is classified according to European regulations for product transport: non hazardous.

### RECYCLING

**BioFoam** is suitable for recycling using modern methods of grinding, cleaning and regranulation. 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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