

CIRCULUM®

B-780p

DESCRIPTION

B-780p is an expandable polystyrene grade containing pentane as a blowing agent. The product is delivered in the form of spherical beads with a bulk density of about 0.6 g/cm³ and is available in 1100 kg octabins.

APPLICATIONS

The properties of **B-780p** make it especially suitable for the production of shape-moulded products.

PROCESSING

The processing conditions of **B-780p** 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. For higher densities (> 30 kg/m ³) it is recommended to mix the steam with air.
Conditioning	Depends on the density. The higher the density the longer the conditioning time. Generally 12–24 hours is recommended.
Moulding	<p>The machine should be fed with saturated steam with a max pressure of about 2 bar.</p> <p>The 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.</p>
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		5.5 – 6.5	%	Gas chromatography	
Monomer level		< 0.1	%	Gas chromatography	
Main bead size distribution		0.6 – 1.0	mm	Image analyser	
End product					
		<u>15 kg/m³</u>	<u>20 kg/m³</u>	<u>30 kg/m³</u>	<u>40 kg/m³</u>
Compressive stress (10 %), (kPa) EN 826	80	120	200	280	
Bending strength, (kPa) EN 12089	170	240	380	560	
Heat conductivity (λ_{10}), (W/mK) EN 12667	0.037	0.034	0.032	0.032	

FOOD CONTACT REGULATIONS

B-780p meets the food contact regulations in most countries. If required, contact your BEWi Synbra RAW representative for a certificate.

STORAGE

B-780p should be stored at below 20 °C. Protect from direct sunlight and other weather conditions (rain, wind, frost etc.). Keep away from any source of ignition. The storage time should not exceed three months. After opening of the packaging, it should be used as soon as possible.

SAFETY

In transport **B-780p** is classified according to European regulations for product transport: Substance number UN2211, Class 9.

In processing avoid generating dust. All equipment should be properly earthen. Releases pentane during processing which might form a flammable/explosive vapour-air mixture. Use proper ventilation and keep away from any source of ignition. A Safety Data Sheet is available on request.

RECYCLING

B-780p 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 Synbra RAW representative for more details on various aspects of safety, recovery and disposal of the product.

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