

CIRCULUM®

A-910p

DESCRIPTION

A-910p is an expandable polystyrene grade containing pentane as a blowing agent. It is a special, antistatic grade. The products are 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 **A-910p** make it suitable for the production of thin-walled shape-moulded products especially for the electrical industry, where the antistatic behaviour of packaging material is needed.

PROCESSING

The processing conditions of **A-910p** depend on the combination of the product and processing equipment used. Optimal settings have to be adjusted for each combination. Compared to K-910p, the prefoaming speed and the conditioning time are similar, but slightly more steam in moulding is needed to obtain the same strength.

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. 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 maximum 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

	<u>Value</u>	<u>Unit</u>	<u>Test method</u>
Pentane content	5.5 – 6.5	%	Gas chromatography
Monomer level	< 0.1	%	Gas chromatography
Main bead size distribution	0.4 – 0.7	mm	Image analyser

End product

	<u>20 kg/m³</u>	<u>30 kg/m³</u>	<u>40 kg/m³</u>
Compressive stress (10 %), (kPa), EN 826	120	200	280
Bending strength, (kPa), EN 12089	240	380	560
Heat conductivity (λ_{10}), (W/mK), EN 12667	0.034	0.032	0.032

STORAGE

A-910p 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 **A-910p** 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

A-910p 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 representative for more details on various aspects of safety, recovery and disposal of the product.

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