

Monocell® 100BL



Product Description:

Monocell® 100BL is an “Expandable Polystyrene” material in the shape of blue spherical beads containing pentane as a blowing agent.

Typical Properties:

Bead Size Range (mm): 0,4 – 0,85

Sieve Analysis: 0,4 mm – 0,9 mm, min. 97,8%

Bulk Density: $\approx 615 \text{ kg/m}^3$

Application:

Monocell® 100BL is a fast molding EPS grade, which can be produced in density ranges between 19 kg/m^3 – 40 kg/m^3 and is suitable for high quality block molding and shape molding with a section thickness of 10 mm and higher, ensuring rapid molding with short cycle time.

Packaging:

All Monocell® products are packed in standard big-bag packages of 1.000 or octagonal cardboard boxes (octabins) of 1.100 kg. The content is protected by an inner sealed plastic liner placed between the product and the container.

Storage:

Monocell® 100BL should be stored in well-ventilated storage areas with temperatures not exceeding 25°C . It should be protected against unsuitable weather conditions and direct sun light. In order to maintain the expandability potential, it is recommended to proceed to conversion within one month after delivery.

Partially used containers should be closed as tight as in original conditions, avoiding any free space between the raw material and lining and should be consumed in short time.

Processing:

Beads expansion to block or mold shaped products is managed with steam (water vapor).

Monocell® 100BL can be expanded at densities between 19 kg/m^3 – 40 kg/m^3 in a single expansion. The minimum density achievable may vary depending on the expander type and process conditions.

The recommended temporary storage time in silos is 12-30 hours depending on the density, the atmospheric and process conditions.

For any further request please contact our technical support department.

Safety and handling:

Please refer to the MSDS prior to usage.

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GRADES Nomenclature	BEADS SIZE (mm)	APPLICATION			
		BLOCK S	PACKAGING > 20mm	PACKAGING > 10mm	PACKAGING < 10mm
REGULAR GRADES					
300	1,25 - 2,2	10* - 20			
200L	0,85 - 1,25	12* - 25			
200	0,85 - 1,25	13* - 30			
100	0,4 - 0,85	18 - 40			
100BL	0,4 - 0,85	19 - 40			
50	0,3 - 0,4				23 - 60
FLAME RETARDANT GRADES ⁽¹⁾					
300F	1,6 - 2,5	9* - 15			
200FL	0,85 - 1,6	10* - 18			
200F	0,85 - 1,6	12* - 30			
100FBL	0,4 - 0,85	19 - 30			
100F	0,4 - 0,85	18 - 30			

*Second expansion

⁽¹⁾ Regarding reaction to fire, EPS products made of Monocell® F (not mixed with other materials) and within a density range from 10 kg/m³ – 30 kg/m³ fulfill the requirements of class E according to EN 13501-1.

General Information:

Monocell® 100BL should be kept away from sparks and flames during processing and storage. Adequate ventilation on floor level is also required during these phases. The grounding of the entire equipment and machinery is essential, in order to prevent static electricity on the conveying lines and during processing.

Safety precautions / measures are included in the “Safety Data Sheet” (SDS).

Depending on the obtained density and atmospheric conditions, it should be considered that EPS products by Monocell® 100BL may contain pentane gases after processing and should be matured for sufficient time in order to ensure pentane’s removal.

Monocell® 100BL is permitted to be used in food contact applications.

Monocell® 100BL is produced in Inofita, Greece.



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