



## Technical Data Sheet

Revision date: 30/01/2025

### Product Description:

Eurocell® 50R is an “Expandable Polystyrene” material in the shape of almost spherical beads, containing pentane as a blowing agent.

### Typical properties:

Bead Size Range (mm): 0,3 – 0,5

Sieve Analysis: 0,25 mm – 0,6 mm, min. 98 %

Bulk Density: ≈ 615 kg/m<sup>3</sup>

### Application:

Eurocell® 50R is an EPS class, which can be produced in density ranges between 23 kg/m<sup>3</sup> – 60 kg/m<sup>3</sup> suitable. It is an EPS class which provides high speed, short cycle time and quick molding with high quality, 5 mm and cross section thickness.

Eurocell® 50R, in general; It is preferred in high density packaging products which provides thin-sectioned, food contact boxes, impact resistance with seedling vials.

### Packaging:

All Eurocell® products are packed in standard big-bag packages of 1125 kg or octagonal cardboard boxes (octabins-non stackable) of 1.125 kg. The content is protected by an inner sealed plastic liner placed between the product and the container.

### Storage:

Eurocell® 50R should be stored in well-ventilated storage areas with temperatures preferably not exceeding 25°C. It should be protected against unsuitable weather conditions and direct sun light.

Partially used containers should be closed as tight as original conditions, paying attention to avoid any space between the raw material and lining, and should be consumed in a short time. In order to maintain the expansion potential, it is recommended to start the transformation within one month after delivery, if the package is not opened.

### Processing:

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

Eurocell® 50R can be expanded at densities between 23 kg/m<sup>3</sup> – 60 kg/m<sup>3</sup> in a single expansion. In the case of pre-expansion at high concentrations, heat transfer by water vapor should be

minimized. The minimum density achievable may vary depending on the expander type and process conditions.

The recommended intermediate aging time in silos is 12-36 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 SDS prior to usage.

### General information:

Eurocell® 50R 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 Eurocell® 50R may contain pentane gas after processing and should be matured for sufficient time in order to ensure pentane’s removal.

Eurocell® 50R is suitable and permitted to be used in food contact applications.

Eurocell® 50R is produced in Aliaga, Türkiye.

grades	beads size (mm)	application denstiy ( kg/m <sup>3</sup> )	application	
			blocks	injection
regular grades				
200RL	0.9 - 1.25	10* -14	+	+
150R	0.7 - 0.9	16-24	+	+
100R	0.4 - 0.7	22-35	+	+
50R	0.25 - 0.6	23-60	-	+

\*multiple expansion