



## Technical Information: Polysource Colored EPS

### **Description:**

Polysource Colored EPS comes in a variety of colors and can be used for making molded shapes. The most common color is black which is widely used for making safety helmets. Common density range is 28-96 g/l.

### **Bead Sizes and Geometry:**

Offered in 3 different configurations, all Polysource Colored EPS is extruded.

Cylinders: Approx. .55mm diameter and 2.25mm length

\* Cylinders are typically used for helmet production

Round, lentil: "A" bead approx. 1mm

Mini-Round, lentil: "B" bead approx. .8mm

\*\*Mini-Round typically used for thin walled applications

### **Pentane Content:**

> 4.0% by weight, typically 5% nominal unless specified

### **Color:**

Black and Grey for helmets

Other colors available for other shape molding applications

Colors should look the same from batch to batch however density will effect the color, the light the density the lighter the color.

### **Packaging:**

1,000kg supersacks (FIBC) or 500kg octabin (IBC).

Octabins are palletized, supersacks are not. Both packages should be kept indoors, do not store outdoors. Polysource material should store in its original closed packaging until time of use and resealed between uses. High temperatures (over 32 deg C) shorten the shelf life of the material. Inventory should be kept to a minimum during summer months.

### **Shipping:**

UN2211, Polymeric beads, expandable, Class 9, PG III

### **Processing:**

Pre-Expansion using a batch expander with fluid bed dryer is recommended. Density range 28-96 g/l.

Bead aging prior to molding should be a minimum of 24 hours, 72 hours is recommended.

Molding can be done on standard EPS molding equipment. Minor adjustments may be necessary to optimize the performance of Polysource Colored EPS versus regular white EPS. This is partly due to the use of ISO-Pentane, additional cooling may be required.

### **Safety:**

Due to the flammable nature of pentane gas, it is recommended that adequate ventilation be used to keep the pentane vapors from accumulating in work areas. All ignition sources must be kept away from work area including static sparks. Grounding of equipment and intermediate bags is highly recommended.

*This information is meant to be a guideline. Each customer has their own process and safety protocol. The information contained in this sheet is based on our best knowledge at the time of publish.*

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