



### I. 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 kg/L.

### II. BEAD SIZES AND GEOMETRY

Offered in 3 different configurations, all POLYSOURCE® Colored EPS extruded:

- **Strand Cut:** Approximately 0.55mm diameter and 2.25mm length  
\*Cylinders are typically used for helmet production
- **Round, Spherical:** “A” bead approximately 0.1mm diameter
- **Mini-Round Spherical:** “B” bead approximately 0.8mm diameter  
\*\*Mini-round typically used for thin-walled applications

### III. PENTANE CONTENT

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

### IV. COLOR:

Black and grey for helmets, other colors available on request.

Colors should look the same from batch to batch, however, density will affect the color - the lighter the density, the lighter the color.

### V. PACKAGING

1,000 kg super sacks (FIBC) or 500 kg octabin (IBC)

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

### VI. SHIPPING

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



### VII. PROCESSING

Pre-expansion using a batch expander with a fluid bed dryer is recommended. Density range 28-96 kg/L.

Bead aging prior to molding should be a minimum of 24 hours, although 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.

### VIII. SAFETY

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

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