

# Supreme SE300HD

## Expandable Polystyrene (EPS)

### Technical Datasheet



#### CHARACTERISTIC

- Ultra low cooling time
- Low steam consumption
- Multipass low density
- High Strength
- Excellent fusion

#### APPLICATIONS

- Suitable for higher density blocks, Mainly used for production of thicker shape molded parts with superior surface finish with faster cycle time
- Suitable for applications where high strength is required e.g. Wine bottles packaging, Surfing board, Crown molding, Precision molding, Crush helmets etc.

#### PACKING

- Available in 25 Kg PP bag / FIBC with liner

● **Material status:** Commercially active

● **Agency ratings:** REACH and RoHS compliant, Food contact approved.

Parameters / Property	Unit	Value
Bead Size Range	mm	0.50 - 0.71
Appearance	–	Translucent solid beads
Residual Monomer	%	Max. 0.25
Moisture Content	%	Max. 1.0
Blowing Agent (Pentane )	%	5.0 - 7.0
Recommended density	gpl	20 - 22

#### NOTE:

Data presented in this catalogue are typical properties based on our SPL laboratory test method. BL/FC - we recommend BL grade for high expansion block moulding application and FC grade for Fast cycle shape moulding application. Preform density is as measured in single pass batch preformer at SPL laboratory. Minimum density is dependent upon expander type and pressure/steam conditions. Lower densities can be achieved by multiple expansions.

#### Influence of Ambient/Seasonal Effects

- **Coastal Areas** : High relative humidity in air - Needs longer maturation time
- **Non Coastal Areas** : Summer (Higher temperatures) - Shorter maturation time  
: Winter (Low temperatures) - longer maturation time

**Grade Selection Guidelines:** Proper bead size selection along with suitable grade type will help in enhancing production efficiency & achieving optimum product properties. A grade with large bead size is generally suitable for large foamed products with lower density. Grades with smaller bead size are suitable for applications like small moulded products with higher density & shorter cycle time.

Supreme Petrochem Ltd

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#### Test Method & Standard Properties

Data presented in this catalogue are typical values of properties for natural material and intended to serve as a guide only. All tests are carried out at ambient temperature unless otherwise stated by our internal laboratory as per ASTM D test method.

#### Environmental

Supreme EPS can be recycled, incinerated or disposed off in landfill without detriment to the environment. Adequate ventilation should be provided during processing. Where recycling of Supreme EPS is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended. Material Safety Data Sheets (MSDS) for Supreme EPS are available from Supreme Petrochem Ltd. MSDS are provided to help customers in their own handling, safety and disposal needs and those that may be required for applicable health and safety regulations e.g. OHSAS 18001 & ISO14000. Supreme FR EPS grades contain additives which may release hazardous or toxic vapors through lengthy or excessive exposure to high heat. Use suitable personal protective equipments.

#### Handling Precautions

Supreme EPS should be stored in a cool, dry place away from direct sunlight. This product can release pentane during expansion and molding. Pentane is a highly flammable gas in the presence of open flames, lit cigarettes, sparks, static electricity discharges, or heat. Prolonged or improper storage can result in deterioration of product properties. The Supreme Petrochem's Material Safety Data Sheet (MSDS) contain important safety information and should be reviewed before using the product.

#### Exclusion of Liability

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