

Supreme SE300FR

Flame Retardant Expandable Polystyrene (FR EPS) Technical Datasheet



CHARACTERISTIC

- High Expansion
- Low steam consumption
- High Strength
- Excellent fusion
- Low post moulding drying time
- Good thermal and sound insulation

- **Material status:** Commercially active
- **Agency ratings:** REACH and RoHS complaint

APPLICATIONS

- Suitable for higher density block molding
- Sandwich panels
- Insulation boards

PACKING

- Available in 25 Kg PP bag / FIBC with liner

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	18 - 20
EPS flammability test as per IS 4671:1984	–	Pass

NOTE:

Data presented in this catalogue are typical properties based on our internal laboratory test method. Minimum density is dependent upon expander type and pressure/steam conditions. Lower densities can be achieved by multiple expansions. SE300FR generally is used in application which is requiring fire classification such as thermal insulation material for construction applications in block molding for lower densities.

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. Kindly, refer to recommended processing temperatures and 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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