## ME Series

### **Technical Data Sheet**

## Recycled Content - Modified Expandable Polystyrene

### **Product description:**

**ME (Modified) Series** Products include all NexKemia flame retardant expandable polystyrene resins (EPS) with a **30% recycled content**. Multiple pentane (blowing agent) options and bead size ranges are available to achieve EPS density targets from 0.95 to 4.0 pcf. The **ME Series** products are suitable for a wide range of applications and are optimized for low or high densities, pre-puff maturation and molding cycle time optimization, surface finish quality, etc.

### **Applications:**

ME Series EPS can be used in many applications including, but not limited to:

Block Molding	Shape Molding
<ul> <li>Protective Packaging</li> <li>Suitable for use with EPS/Regrind materials</li> <li>Bean Bag Furniture</li> <li>Construction applications</li> </ul>	<ul><li>Protective Packaging</li><li>Many Additional Applications</li></ul>

### **Compliance & Documentation:**

When properly manufactured, <u>EPS finished goods</u> produced with NexKemia **ME Series** products comply with the following:

- CAN/ULC S701.1: Type 1, 2, 3
- ASTM C578: Type I, II, VIII, IX, XIV and XV
- ASTM E84/ UL 723 Surface Burning Characteristics of Building Materials
- CAN/ULC 102.2 Surface Burning Characteristics of Building Materials and Assemblies
- Greenguard Gold



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### **Technical Data:**

NexKemia ME Series Modified EPS	Typical Pentane Value (%wt.)	Unexpanded Beads Size Distribution (mm)	Recommended Expanded Density Range (pcf)	
Modified Grades				
ME364-E30	6.0	0.40 – 0.85	1.00 – 3.00	
ME464-E30	6.0	0.85 – 1.40	0.95 – 1.25	
ME444-E30	4.7	0.85 – 1.40	1.10 – 1.80	
ME447-E30	4.0	0.85 – 1.40	1.50 – 4.00	
ME449-E30	4.0	0.85 – 1.40	1.20 – 3.00	

## **Processing:**

Pre-Expansion	Maturation Time	Molding
Single pass expansion: to optimize pre-expansion and achieve a homogeneous density from bead to bead, a slower expansion rate is recommended. By optimizing the expansion cycle, the uniformity of the pre-expanded beads will help to provide more consistent and uniform molding.	Aging times may range between 4 to 48 hours. The maturation time will vary according to the product used and the density targeted. Please contact your sales or technical representative for more details.	NexKemia EPS is designed to be molded with commercially available EPS processing machinery (horizontal and vertical block molds and shape presses).
<b>Second pass:</b> to achieve lower densities (<0.75 pcf) it is recommended that the products be pre-expanded in two stages.		

To select the best product for your application, see the NexKemia Product Chart and please contact your NexKemia representative.





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### **General Information**

### **Product Packaging**

 All Nexkemia EPS materials are packaged in 1,000 Kgs. (2,205 Lbs.) Super-sacks. A typical full truckload shipment consists of 20 Super-sacks of eps material with a total delivered weight of 20,000 Kgs. (44,100 Lbs.) per truckload.

### Safety and Handling

- Electrostatic discharges may be generated during the use and manipulation of any EPS product.
- · All metallic equipment and machinery should be grounded in accordance with all local government safety ordinances.
- Only use spark-proof tools in all areas where EPS is stored and processed.
- NexKemia ME Series products contain a flame-retardant additive and are not suitable for food contact applications
- For more information, refer to the NexKemia Safety Data Sheet (SDS) prior to use.
- Upon delivery, trailer and/or container should be opened and allowed to vent for a minimum of one hour before unloading.

### Storage

### All EPS materials should be:

- Stored in unopened containers in dry and well-ventilated areas. The recommended storage temperature range for EPS is 20-25°C (68-77°F).
- Protected against unsuitable weather conditions and direct sun light.
- Kept away from heat, sparks, flame, and other sources of ignition.

### **Shelf Life**

- · In order to attain and maintain the ideal product performance of NexKemia EPS, it is recommended to process all product materials within 6 months of the date of fabrication.
- Any opened containers should be closed properly to minimize excess air in the product bag and should also be processed within a short period time.

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24 Bellevue Mansonville Québec, Canada, JOE 1X0 450 292 3333 info@nexkemia.com

