

## Product Description:

**NexKemia** welcomes the **RT series (Graphite Regular grade)** material to its NexTherm line up of graphite EPS products. Designed for insulated bio-pharma and food shippers, protective packaging and multi-use coolers. The pentane (blowing agent) content and resin size range provide optimal achievable density targets ranging from 0.70 to 3.0 pcf.

## Applications:

**The RT series** is a suitable solution for many applications including but not limited to:

- Bio-Pharmaceutical insulated shippers
- Multi-use insulated coolers
- Agricultural containers
- Automotive & Appliance protective packaging
- Plus, many additional applications

## Compliance & Documentation:

When properly manufactured, EPS finished goods produced with the **RT series** resin comply with the following:

- REACH Directive for regulation of Substances of Very High Concern (SVHC)
- RoHS Directive for regulation of Heavy metals and specific flame retardants
- Does not contain any fire retardant

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

## Technical Data:

NexTherm Regular Graphite EPS	Typical Pentane Value (%wt.)	Unexpanded Beads Size Distribution (mm)	Recommended Expanded Density Range (pcf)
<b>Graphite Regular Grades</b>			
<b>RT35L</b>	5.5	0.40 – 0.85	1.15 – 3.0
<b>RT36L</b>	6.0	0.40 – 0.85	1.00 – 2.0

## Processing:

Pre-Expansion	Maturation Time	Molding
<p><b>Single pass expansion:</b> 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.</p> <p><b>Second pass:</b> to achieve lower densities (&lt;0.75 pcf) it is recommended that the products be pre-expanded in two stages</p>	<p>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.</p>	<p><b>NexKemia EPS</b> is designed to be molded with commercially available EPS processing machinery (horizontal and vertical block molds and shape presses).</p>

For additional product information please refer to the **NexKemia Product Chart** or contact your NexKemia representative.

## 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.
- 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.

### End Products

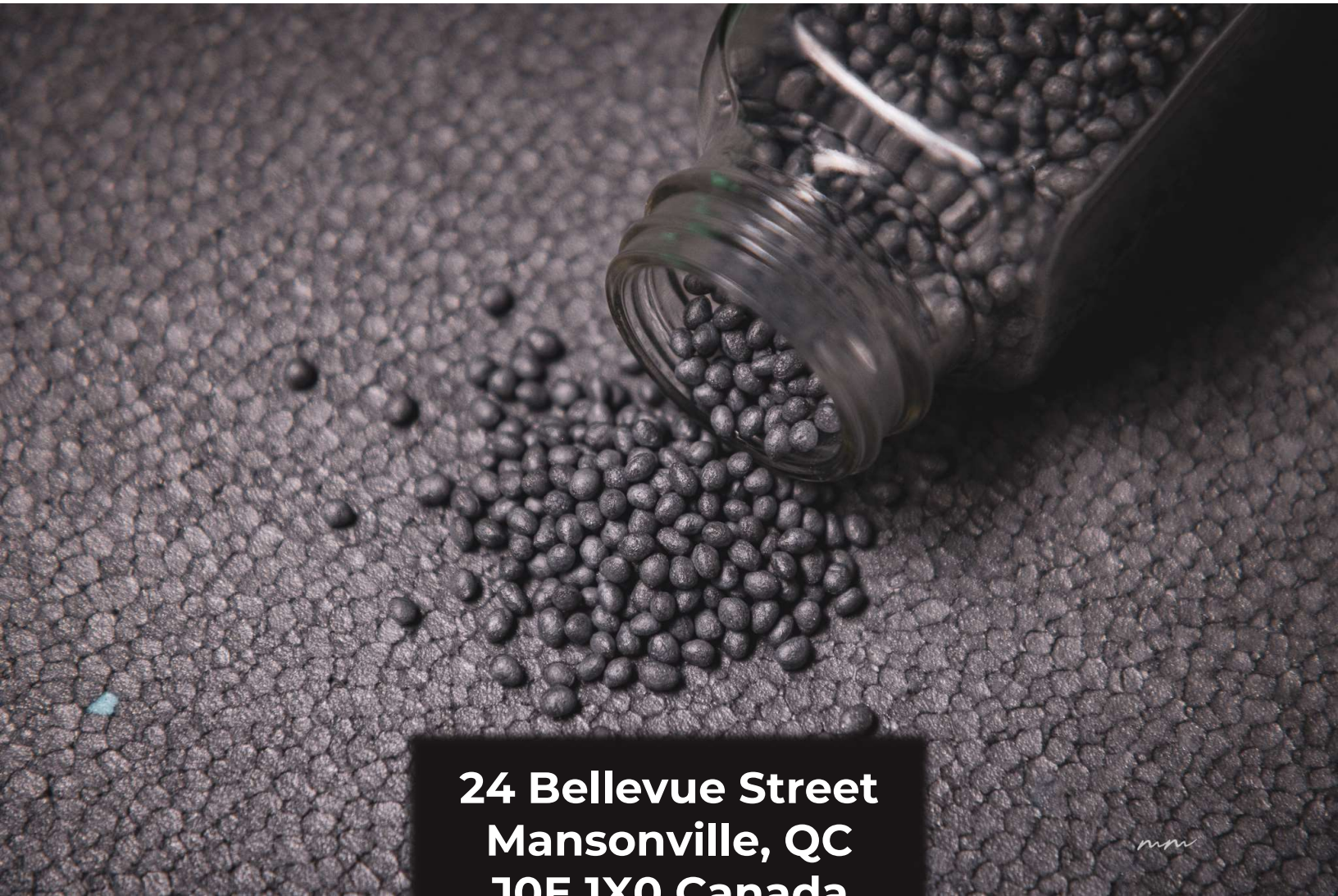
- Finished gray foam products should be kept away from prolonged direct sunlight. End products should be wrapped in opaque white films.

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Revised: May 2025



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