

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 1.0 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)
Graphite Regular Grades			
RT35L	5.5	0.40 – 0.85	1.15 – 3.0
RT36L	6.0	0.40 – 0.85	1.00 – 2.0

Processing:

Pre-Expansion	Maturation Time	Molding
<ul style="list-style-type: none"> • 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. • Second pass: to achieve lower densities (<0.75 pcf) it is recommended that the RT series products be pre-expanded in two stages. 	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • NexKemia RT series is designed to be molded with commercially available EPS processing machinery (horizontal and vertical block molds and shape presses). • Customer recycled eps (i.e. regrind) may be added to the fresh material, depending upon the product grade used, the quality of regrind and the condition of the equipment involved.

For additional product information please refer to the **NexKemia Product Chart** or 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.
- 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 12 months of the date it is shipped.
- 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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