

NOVA Chemicals' Recycled Content Shape Grade EPS Resin



May 2013

SHAPE/PACKAGING GRADE

EPS R625B

A 25% recycled content EPS resin

R625B with 25% EcoSix™ Recycled Resins

What is it and why would you want it?

NOVA Chemicals R625B is a shape/packaging grade expandable polystyrene (EPS) resin made with 25% recycled-content. The recycled content is EcoSix™, a 100% recycled polystyrene resin product from RAPAC, a RING Company.

- R625B has a low VOC content of ~4%, a minimum foam density of 1.2 PCF, and fast molding cycles.
- It can be used for the same applications as a virgin EPS resin.
- The quality and consistency of this resin is similar to virgin EPS resins and surpasses that of other EPS resins with recycled content.

The introduction of this product to the market place increases the availability of recycled content EPS for protective packaging while creating a demand for consumers and businesses to recycle more polystyrene. Using R625B is an opportunity to demonstrate a commitment to reducing the amount of waste going to landfills without relaxing standards for high quality packaging materials.

ECOSIX
RECYCLED RESINS

R625B with 25% EcoSix™ Recycled Resins

What's in it?

- R625B is an EPS product made with 25% recycled polystyrene (PS) resin in the form of EcoSix™ recycled resins from RAPAC.
 - RAPAC collects and processes EPS and other PS materials into PS beads ready for pentane impregnation by NOVA Chemicals.
 - RAPAC is the largest polystyrene recycler in the U.S.
- NOVA Chemicals' unique resin manufacturing allows the RAPAC recycled resin and the NOVA Chemicals virgin PS resin to be homogenized in the reactor prior to adding pentane, creating a highly consistent R625B resin.
 - 25% of the R625B feedstock is recycled PS beads supplied as EcoSix™ 100% recycled resin from RAPAC, a RING Company. Through its work with RAPAC, NOVA Chemicals again demonstrates a commitment to provide our customers market leading solutions that help them achieve their sustainability goals and economic viability. Our commitment to make a better recycled resin is paying dividends for our customers!
 - The remaining 75% of the R625B feedstock is NOVA Chemicals virgin PS.

R625B with 25% EcoSix™ Recycled Resins

How does it perform?

- R625B is an EPS product made with 25% recycled polystyrene resin. This resin performs in a similar fashion as a standard NOVA Chemicals shape grade EPS resin.

Performance Characteristics

- **Minimum Density of 1.2 pcf**
- **25% Recycled PS Resins**
- **Low Pentane**
- **Fast Molding Cycles**
- **Excellent Fusion/Part Strength**

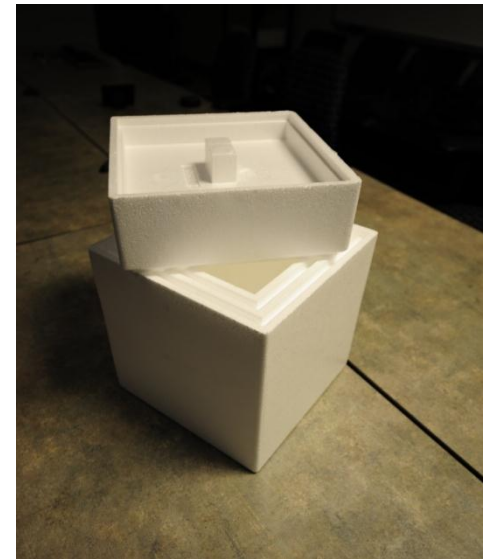
R625B with 25% EcoSix™ Recycled Resins

How can it be used?

- R625B is an EPS product made with 25% recycled polystyrene resin. This resin can be used in the same applications as a standard NOVA Chemicals shape grade EPS resin.

Applications

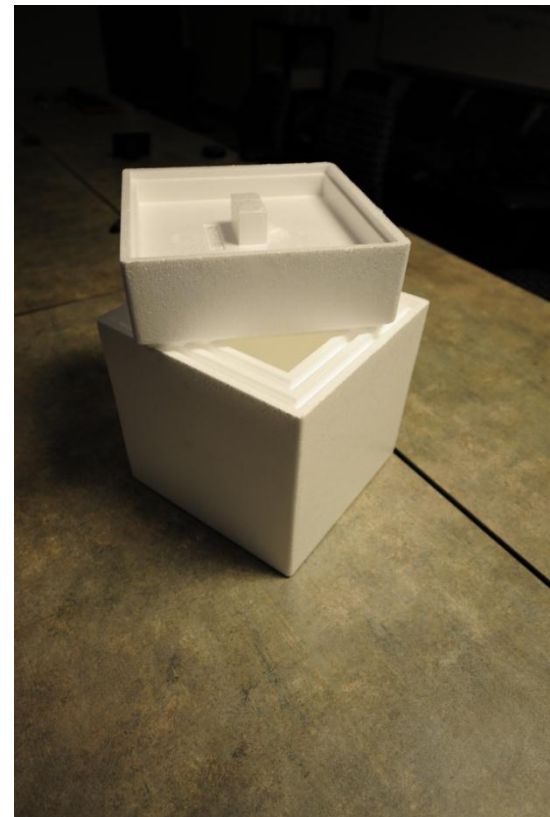
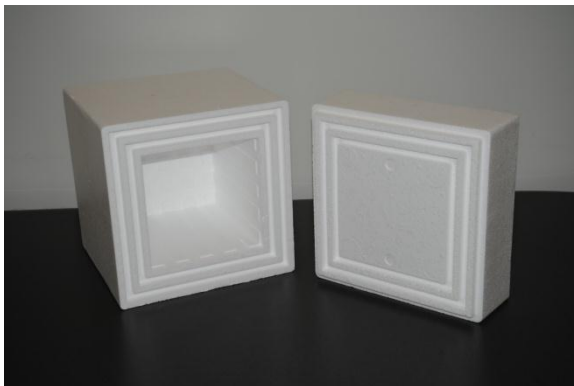
- **General Purpose Packaging**
- **Coolers and Wine-Packs**
- **Medical/Pharmaceutical Shippers**
- **Custom Shape Molding**



- Recyclable in PS recycle streams at locations where appropriate facilities for processing EPS exist.

R625B with 25% EcoSix™ Recycled Resins

Examples of Molded R625B Parts



R625B with 25% EcoSix™ Recycled Resins

Strengthening the EPS & PS Recycling Network

- Historically, polystyrene (SPI code #6) recycling has not been available to all communities, in large part, because there has not been a reliable market demand for material collected in this recycling stream.
- The availability of products like NOVA Chemicals' R625B using RAPAC's EcoSix™ resin is meeting molders' and brand owners' demand for recycled content resins while increasing the economic and environmental sustainability of polystyrene recycling. Recycled content products like R625B create the foundation for increased availability, stability and viability of EPS and PS recycling streams.
- For more information about EPS Recycling programs, visit:
 - EPS-IA (www.epsindustry.org)
 - Earth911 (<http://earth911.com>)



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