

Envirocooler® ePUR™ Insulation Material: A new option for protecting temperature-sensitive life sciences products

Jarden Life Sciences innovates with new forms of polyurethane (PUR) to improve the performance of shipping containers while offering substantial cost savings

Fishers, IN—September 26, 2016—Jarden Life Sciences, a leader in developing packaging and storage technologies for pharmaceuticals and other temperature-controlled life sciences products, is introducing a new insulation material, Envirocooler® ePUR™ insulation, that will dramatically change the economics and capabilities of “cold chain” shipping solutions.

Envirocooler® ePUR™ insulation has the potential to reduce typical insulation dimensions by up to a third, even while providing higher R-value (a measure of insulation performance) when compared with conventional PURs. This will enable containers to be significantly lighter and smaller than conventional ones, providing savings in shipping costs, materials usage and storage volumes. Alternatively, managers of pharma cold chains could opt to use the material in conventional dimensions, but get extended longevity of temperature-sensitive shipments through the better insulation performance offered by Envirocooler® ePUR™ insulation.

Jarden Life Sciences will be offering Envirocooler® ePUR™ parcel-size shippers (with outer dimensions ranging from 11.125 in. to 23.25 in.), which are lighter by as much as 46%, and smaller by as much as 27%, when compared to conventional PUR insulation. In the typical parameters of express air delivery of packed containers, customers could experience cost savings of approximately 20%. In addition, ePUR™ pallet shippers are in final stages of development to maximize product capacity and shipment duration for 2-8C and CRT applications.

Jarden Life Sciences will be introducing Envirocooler® ePUR™ insulation to the industry at the upcoming IQPC GDP & Temperature Management Logistics Global Forum (Boston, Sept. 26-30).

“Temperature-controlled shipping containers bring biotech and other high-value products to customers whose lives can depend on a reliable delivery, with the products protected from spoilage by exposure to high temperatures,” says Scott Dyvig, Program Manager, Packaging Engineering and Technical Services at Jarden Life Sciences. “With Envirocooler® ePUR™ insulation material, pharma supply chain managers and their service providers can benefit from higher performance, yet lower packaging and shipping costs.”

The goal: improving the pharma supply chain

Envirocooler® ePUR™ insulation results from a combination of Jarden Life Sciences’ materials-technology expertise, and with insights into the technical requirements of temperature-controlled shipping. Most pharmaceuticals, at some point in their

distribution, are packed into a parcel-size container that has insulated walls along with gel packs or other sources of cold. Generally, the containers are “good” for 24 to 72 hours before their internal temperature begins to rise beyond the pharmaceutical’s limits.

For years, packaging designers have relied on insulation materials like expanded polystyrene (EPS), foamed polyurethane and similar materials, each of which has a different combination of performance characteristics. Jarden Life Sciences, working with leaders in PUR technology, has adapted the latest innovations of PUR fabrication and chemistry to develop Envirocooler® ePUR™ insulating material. The Envirocooler® ePUR™ containers have been tested to industry standards (ISTA 7E) and have already been proven in field tests with clients.

“There have been many technical advances in temperature-controlled packaging for life sciences in recent years,” observes Dyvig. “Generally, these have involved expensive, high-tech materials which perform well but add significantly to pharmaceutical shipping costs. It’s great to be able to offer the industry a high-performance innovation that can actually reduce these costs.”

About Jarden Life Sciences

Jarden Life Sciences, part of Newell Brand’s global portfolio of brands, is a leader in the design of thermal packaging solutions, with capabilities in developing customized primary and secondary packaging as well as off-the-shelf solutions. Jarden Life Sciences offers a rich pool of resources, including specialists in thermal science, logistics, applied materials, and engineering to offer the industry’s smartest packaging solutions. Connect with Jarden Life Sciences on Twitter @JardenLS and on LinkedIn, at <https://www.linkedin.com/company/10107041>.

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