

Introducing...

# LytR™ Polymer Composite System

Lyten 3D Graphene™ Reinforced Linear Low-Density Polyethylene

## What is LytR™?

LytR™ is Lyten's unique polymer composite infused with a proprietary carbon-based material called Lyten 3D Graphene™ that significantly reduces weight while maintaining the same or better strength and performance.

## Up to 50% Lighter Weight

LytR™ LLDPE R104.53 is a polyethylene formulation specifically for rotomold applications that reduces product weight by up to 50% while maintaining the same performance and strength as comparable polyethylene without LytR™.

This system of polymer materials can be formulated to achieve lighter weight, greater strength, with the potential to improve thermal and electrical properties, or to optimize for other specific properties.



## Engineered for Rotomolding

The LytR™ R series is currently using an octene copolymer designed specifically for rotational molding applications that require exceptional stiffness, great mold release, and outstanding impact strength.

- Increased stiffness
- Industrially validated & scalable
- Low-temperature toughness
- Cost effective
- Broad processing window
- Lower carbon footprint
- Tunable performance
- Productivity gain

## What is Lyten 3D Graphene™?

Lyten 3D Graphene™ is a proprietary, infinitely tunable advanced materials platform. It is a recent technological invention by Lyten and an advanced form of 'graphene', which is a material 300 times stronger than structural steel. When Lyten 3D Graphene is infused into polyethylene, as the LytR™ material, it significantly improves the polyethylene's physical properties, thereby requiring less polyethylene material and enabling a lighter-weight product. As a component within a battery chemistry, Lyten 3D Graphene is designed to unlock the high potential energy density of Lithium-Sulfur cells to enable the full transformation to electric vehicles and reduce fossil fuel emissions. Lyten 3D Graphene also greatly improves the sensitivity and capabilities of active and passive sensors.

## About Lyten

Lyten is an advanced materials and applications manufacturing company that was founded in 2015 and is based in San Jose, Calif. The Lyten 3D Graphene™ platform is the core innovation, and Lyten's revolutionary commercial applications include the next-generation LytCell™ line of Lithium-Sulfur batteries for electric vehicles in the automotive, aerospace, defense, and other markets; a next-generation LytR™ polymer composite that can reduce the amount of plastic used by 50%, while maintaining structural and impact strength; a next-generation sensor array that increases the detection sensitivity from parts per million to parts per billion for use in industrial, health, and safety applications.

Lyten holds more than 290 patents issued or pending and will manufacture Lyten 3D Graphene material, as well as its LytCell™ EV batteries in a pilot plant at Lyten's headquarters in San Jose, CA. To view open positions, visit [lyten.com](http://lyten.com).