



Pharma Solutions

POLYOX™ ES PACKAGING

Advanced packaging solution for extended stability

Supply Chain Challenges

Due to oxidative degradation, managing the logistics and inventory of POLYOX™ water soluble resins (WSR) can be challenging; impacting production planning and increasing overall costs for drug product manufacturers.

Revolutionary Packaging Solution

POLYOX™ Extended Stability (ES) packaging revolutionizes the storage of polyethylene oxide by significantly decreasing polymer oxidative degradation and extending the retest interval for all POLYOX™ standard pharma grades to 24 months. This innovative packaging solution ensures customers receive the freshest material possible, simplifies inventory management, and supports sustainability through more energy-efficient ocean transport and less total landfill waste.



POLYOX™ ES PACKAGING

- Enhanced product stability enables 24-month retest period
- Improved inventory management
- Supports sustainability initiatives
- Smaller packaging (20 kg)

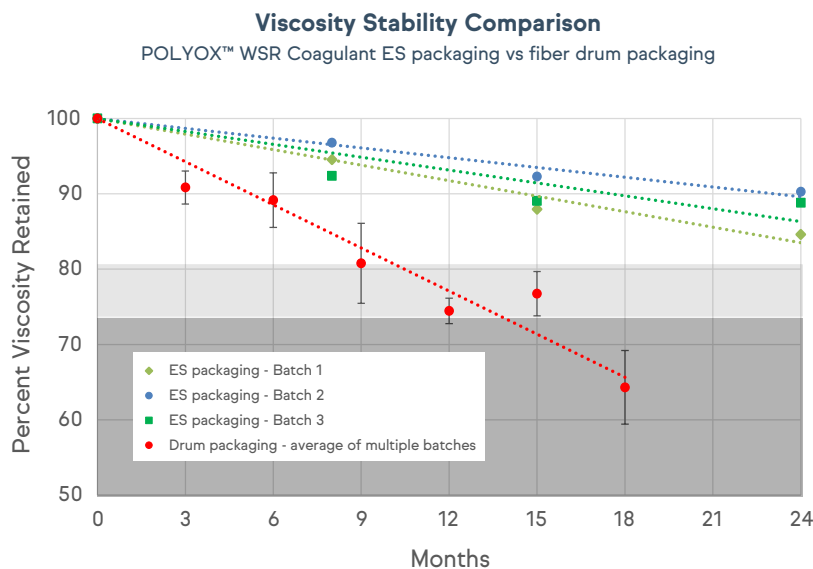
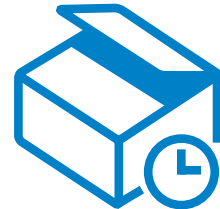
OPTIMIZE YOUR OPERATIONS WITH POLYOX™ ES PACKAGING

Extended Stability: POLYOX™ ES packaging significantly reduces oxidative degradation, extending the retest interval to 24 months; maximizing its potential to ensure prolonged efficacy and stability.

Simplified Inventory Management: Optimize your storage and handling processes with new 20 kg smaller ES packages, making inventory management easier and more efficient.

Enhanced Sustainability: Benefit from energy-efficient ocean transport and reduced landfill waste. POLYOX™ ES packaging can improve the long-term environmental sustainability.

Improved Accessibility: POLYOX™ ES packaging can be stored in regional warehouses, supporting accessibility and business continuity.



The viscosity of POLYOX™ polyethylene oxide (PEO) is crucial for drug release. This graph compares the viscosity stability of POLYOX™ in ES packaging versus fiber drum packaging. The dark gray shading represents a viscosity retention range outside the viscosity specification. The light gray shading indicates a viscosity retention range which could be outside the viscosity specification depending on the initial viscosity. This comparison shows that POLYOX™ ES packaging maintains stability for 24 months.

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