

# Protect Your Drug, Protect Your Patient

## FluroTec® Barrier Film

Creating a vital medication takes a huge commitment of time and money. Pharmaceutical companies must ensure a safe, effective drug supply for patients. Primary packaging components are an integral part of any drug product. Selecting the wrong primary packaging components can jeopardize success. Make the right choice, and you may improve your outcomes.

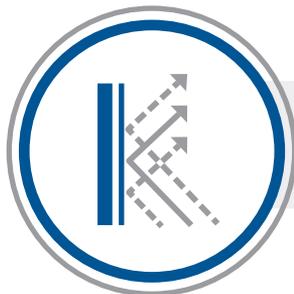


### PURITY AND PATIENT SAFETY

Interactions between a drug product and its packaging can have a significant impact on the purity of your drug and the safety of your patients. With drug impurities and degradation among the primary causes of drug recalls,\* management and control of associated risks should dominate product development and manufacturing processes.

### OPERATIONAL EFFICIENCY

Filling line operations need to run efficiently. Clumping of elastomeric components during processing impacts efficiency, and may increase reliance on silicone. Stopped vials sticking to shelves in lyophilization chambers can decrease yield.

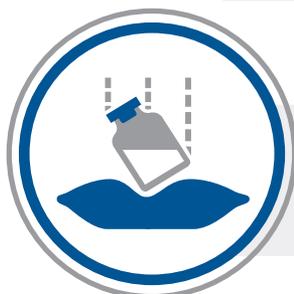


### BARRIER FILM

Minimize the risk of impurities and drug product degradation with an effective barrier against extractables and leachables that reduces absorption/adsorption of drug product.

### COSTS, DELAYS AND RECALLS

Choose wisely to avoid manufacturing problems, development delays and even recalls. Select packaging components that can help reduce the risk to patients, projects and filling operations. Choose suppliers with a proven track record of reliability.



### PACKAGING CAN MAKE OR BREAK YOU

Maintain drug purity and potency by choosing FluroTec barrier film. FluroTec film helps minimize risk by providing an effective barrier against extractables and leachables. FluroTec film can minimize use of silicone oil but still enable excellent machinability and operational efficiencies.

Talk to your West representative and choose the right option for your product, and ultimately, for your patients' health.

West **FluroTec**®

## FluroTec® Barrier Film

### Reliable Performance, Reduced Risk

#### FluroTec Film Provides Drug Protection and Performance Benefits.\*† FluroTec Film May Help to:

- Improve compatibility between the elastomeric closure and the drug
- Minimize interaction between elastomer and drug ingredients
- Provide lubricity without the need for free silicone oil in combination with B2-coating
- Ensure predictable piston release and travel forces in syringe systems
- Reduce stopper clumping during autoclave sterilization
- Prevent stoppered vials sticking to shelves in lyo chambers

#### FluroTec Film Helps Prevent:

- Time-to-market issues from contamination or recalls
- Reformulation or product replacement costs
- Loss of market leadership
- Risk to reputation
- Operational inefficiencies/downtime

\*From an FDA presentation in May 2013; Impurities and drug degradation were among the top three recall reasons in 2010, 2011 and 2012.

†Available on West serum and lyophilization stoppers and syringe plungers.



For more information visit [www.westpharma.com](http://www.westpharma.com)

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