

# Cold Chain Center of Excellence

*Protecting What Matters...By Design*

EFP utilizes our Center of Excellence technology center to improve design and qualification lead time on standard molded and fabricated EPS insulated shippers. We continuously evaluate combinations of insulating materials, refrigerants, PCM's and void fills to bring the best combination of materials to your applications. EFP's capabilities include thermal testing to standard and custom ambient profiles, drop testing and impact testing. The lab team is ISTA certified and the CoE is ISTA/ASTM compliant. EFP employs a contractor network to provide additional third party qualification and certification.

## **PRE-TESTED PRODUCTS**

EFP supplies standard shippers and kits to pharmaceutical distributors and wholesalers and also supplies products for non-pharma applications including gourmet foods, adhesives and specialty products. Our shippers have been qualified to ISTA 3A Small Parcel Distribution Testing to ensure confident shipping of your payload without the extra cost of on an exterior carton.

## **TEST YOUR PACK OUT**

Based on your SOP, EFP will create a standard PharmaTuff pack out to meet your transit requirements. Using your current pack out protocols EFP will recommend one of our current sizes, create a report and provide swift analysis. EFP has a number of pre-qualified packs for 24, 48 and 72 hour transit time requirements.

## **PHARMATUFF AND EQUAL PRODUCT LINES**

Using stock shipper sizes we create pack outs to meet a variety of situations and conditions. Many shippers were tooled with two wall thicknesses. Increasing wall thickness provides the same pack out and payload, providing extra protection at very little additional cost.

## **PEFORMANCE TESTING**

EFP offers assistance in proving our designs with "real world" testing. We can also help you confirm the performance of your current pack outs. You supply the products and pack out and EFP provides specific instructions and data loggers. Ship your product through standard channels and see a snapshot of what happens inside your pack during transit and handling.

