

CONSUMER PACKAGING

ACCELERATING YOUR PATH TO MARKET



Testing Services

- Transit Prediction
- Validation
- Damage Prevention
- Lightweighting
- Sustainability
- Cost Reduction

Industries Served

- Food & Beverage Products
- Consumer Goods
- Medical, Pharmaceutical & Healthcare Products
- Electronics
- Personal Care Products

DESIGN THE **JUST RIGHT** PACKAGE

When developing packaging for consumer products, companies look for cost reduction opportunities, ways to incorporate more sustainable packaging solutions, achieve regulatory compliance or reduce or prevent damage. The supply chain introduces various environmental factors and many of these factors can be predicted and tested to determine protective packaging that's cost effective.

At Smithers Pira, we provide consultation and testing services to ensure your package gets delivered in the right condition.

Thinking ahead. What are the key considerations for developing the right package for your product?

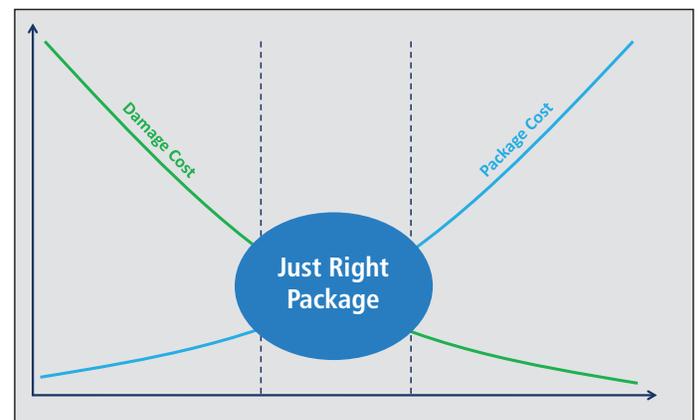
Make a Prediction. Will the product make it to the end user damage free?

Validate. Does it comply with regulations or align with industry standards?

Damage Prevention. How can we identify risk areas and reduce the potential of damage?

Cost Reduction. How can we find the right balance between packaging that looks good and protects?

What is the "Just Right" package? When attempting to develop the optimal packaging balance it is important to balance the cost of protective packaging with the potential cost of damage resulting from distribution. The "Just Right" package is not over packed or under packed.





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The Tools to Properly Assess Your Packaging

From product and packaging validation to troubleshooting and regulatory compliance, Smithers Pira offers the laboratory tools needed to fully assess the performance of your packaging.



Climatic
Conditioning



Shock



Drop & Impact



Compression



Vibration



Reduced Pressure
– Vacuum



Certified and Accredited

Smithers Pira provides testing services and operates as an ISO 17025:2005 Accredited Laboratory. Smithers Pira has also had a long standing partnership with ISTA, working to develop test methods and standards in an effort to optimize packaging systems for the industry.

Testing Standards

Often it is appropriate and necessary to use an internationally recognized pre-shipment testing method or standards in order to maintain time and cost efficiencies. Smithers Pira has extensive knowledge of a range of common test standards including:

- A range of performance, simulation and developmental ISTA protocols
- ASTM D4169, ASTM D7386 and associated ASTM standards
- ISO, CEN and BSI standards/ methods
- DEF STAN and Mil-Std
- UN for dangerous goods/ hazardous materials

Custom Protocol Development

For many products, validation and troubleshooting requires a tailored laboratory test method which takes account of product, pack and supply chain specifics in the real world. Our test development process may include:

- Site visits throughout the supply chain
- Hazard identification
- Remote shock and vibration data acquisition
- Supply chain process mapping
- Field data analysis
- Method validation through laboratory testing

About Smithers

For more than 50 years, Smithers Pira has provided package testing solutions to help reduce shipment damage, troubleshoot packaging and supply chain issues, identify cost reduction opportunities, and meet sustainability requirements. Our experts offer extensive lab-based package testing and transit simulation testing, field-based investigative capabilities and consultative support.



North America

6539 Westland Way, Suite 24
Lansing, Michigan 48917 USA
Telephone: +1 (517) 322 2400
Email: info@smitherspira.com

Europe

Cleeve Road
Leatherhead
Surrey
KT22 7RU
United Kingdom
Telephone: +44 (0) 1372 802000

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www.smitherspira.com/test

Contact us today for a consultation to learn how we can help accelerate your business.