



PACKAGING & MATERIALS TESTING SERVICES

ENSURING CONFIDENCE IN PACKAGE PERFORMANCE



TOTAL PACKAGING CONFIDENCE



Packaging plays an essential role in promoting, protecting and transporting your products. Inadequate testing of package design or materials can result in costly damage and tarnish your brand's reputation. Failure to comply with regulations often triggers fines and delays.

SGS performs testing on materials and physical performance of packing products to assist clients in the design review and development of primary, secondary and transit packaging. Our services cover a wide range of paper, paperboard, corrugated, rigid plastics, plastic sheeting, textiles, glass, ceramic, silicone and allied packaging products.

SGS One-Stop Services offer solutions to industries, such as textiles, toys, electronics, medical/pharmaceutical, food contact, cosmetics, furniture and home improvement.

ACCREDITED WORLD LEADER IN TESTING AND CERTIFICATION

The hazards of transporting your products are unavoidable but loss due to damage isn't. Shorten package development time and increase confidence in product launch.

SGS can evaluate your packaging's performance under any transportation condition.

- Vibration
- Repetitive shock
- Random Frequency
- Sine Wave frequency
- Drop and impacts
- Stacking and Warehousing
- Clamping force

Our full spectrum testing capability can also evaluate the physical performance and chemical properties of all of your packaging materials. Some of our most frequently requested tests are:

- Puncture and bursting strength
- Tensile, elongation and tear resistance
- Edge compression strength
- Folding endurance
- Bending resistance
- Basis weight and thickness
- Atmospheric conditioning
- Toxic elements in packaging
- Accelerated aging
- Shelf life
- Vacuum leakage and altitude testing
- Smoothness and softness
- Stacking and compression strength
- Dart impact

Our global network of SGS laboratories possess the technical expertise as well as industry certifications to ensure your products meet required standards.

SGS is certified to test your package for compliance to standards by the major accrediting organizations including:

- ISTA
- TAPPI
- ASTM
- ISO
- ANSI
- National Motor Freight (trucking)
- Uniform Freight (Railroads)
- UN/DOT, IATA, ICAO and IMDG

SGS VALUE ADDED SERVICES

SGS offers more than superior testing services. Our extensive industry knowledge, technical expertise and global network provide specialized services at every stage of product development.

- Professional testing consultancy
- Technical consultancy
- Product defect analysis
- Seminars and training
- International updates publications
- Green labeling claims verification
- Box certification
- FSC certification

MOST COMMON PACKAGING FAILURES

Physical / Material Defects
Adhesion / Sealing Failures
Migration / Leaching
Heavy Metals in Packaging Materials
Labeling Failures

Partnering with SGS helps you:

- Ensure your packaging protects your products and meets regulations (product and transport)
- Reduce packaging damage and product loss
- Control costs (materials and transport)
- Control environmental issues in the distribution of your products
- Shorten packaging development time and gain confidence in product launch
- Improve customer satisfaction and continued business

COMPLETE PACKAGING SERVICE SOLUTIONS



TOXICS IN PACKAGING

Increased scrutiny over chemicals and heavy metals used in packaging materials (such as mercury, cadmium, hexavalent Chromium VI and lead) has resulted in state legislation to reduce the levels of hazardous substances.

SGS can evaluate your materials to ensure your compliance with regulations such as TPCH.

TOXICS IN PACKAGING LEGISLATION

The [Toxics in Packaging Clearinghouse](#) (TPCH) is a model legislation formed in 1992, developed to reduce the amount of heavy metals, such as lead, cadmium, mercury and chromium VI, in packaging and packaging components sold or distributed throughout the US. Since its enactment the legislation has been successfully adopted in nineteen states including California, Illinois, Pennsylvania and New York and has been considered by congress.

FOOD CONTACT MATERIALS

Any product that comes into contact with food, from a paper wrapper to a plastic container, should undergo suitable testing. These materials are liable to migrate which means that chemicals (e.g. Bisphenol A (BPA) and phthalates) may transfer from the packaging or article to the food item.

The US Food and Drug Administration (FDA) and California legislation Proposition 65 address the issue of food contact materials. SGS technical experts can provide advice on current legislation for materials and articles in contact with food.

SGS offers expertise, analytical testing and consultancy services for plastic and non-plastic materials intended to come in contact with foodstuffs including:

- Durability
- Heat Resistance
- Coating Performance
- Microwave and dishwashing test
- Water absorption
- Global and specific migrations
- Etc.

ECO-FRIENDLY PACKAGING

Consumers are increasingly aware of packaging and its contribution to the waste stream. How you chose to package your product says a lot about your company's commitment to the environment; moreover packaging design and materials contribute significantly to the costs incurred during product manufacture and distribution. Maximizing the effectiveness and efficiency of product packaging makes smart business sense.

Along with traditional services to ensure confidence in the performance of your eco-packaging SGS has a full suite of sustainability services to help you meet a number of green objectives in design, performance and marketing.

- Packaging Eco-Assessment Rating
- System Level review
- Life Cycle Assessment
- Carbon Footprint Analysis
- Eco Labeling

WHY SGS

Recognized as the global benchmark for quality and integrity, SGS employs over 59,000 people and operate a network of more than 1,000 offices and laboratories around the world.

Our global network and expertise in all areas of consumer products are there for you every step of the way. The company's comprehensive testing, product inspection, process assessment and technical services cover the entire supply chain from product development to retailing for hard goods, textiles, electrical, wireless and food products. SGS' global network and expertise provide a single consolidated source that can help manufacturers, suppliers and retailers reduce risk, improve efficiency and product quality, and ensure compliance to both national and international standards.

AVOID COSTLY PRODUCT LOSS

Damage and degradation can occur during distribution and warehousing, resulting in product loss. Rely on SGS' expertise in Packaging and Environmental Testing Services to help you avoid shipping and storage damage.

AVOID DAMAGE TO YOUR REPUTATION

Knowing that client and consumers will receive your products in the same condition as you sent them protects your reputation in the marketplace. With our U.S. based technical expertise and global capabilities network we understand your challenges. At SGS, we work with you to ensure a seamless process for meeting product regulations and performance expectations. SGS testing facilities are approved by the U.S. Department of Transportation as a third party testing laboratory. We certify all package design types in accordance with the United Nations, DOT, IATA, ICAO and IMDG Hazardous Materials Regulations.

Contact us for more information at [800-777-TEST \(8378\)](tel:800-777-TEST) or via e-mail at uscts.inquiries@sgs.com

SGS offers a full array of inspection, verification, testing, certification and consulting services. To find out more about our one-stop service offering, we invite you to visit our website www.sgs.com/cts



WWW.SGS.COM

WHEN YOU NEED TO BE SURE

SGS