

UL PERFORMANCE MATERIALS

LABELS AND LABEL MATERIALS

Services across the
development cycle

The UL logo is a dark red circle containing the letters 'U' and 'L' in a bold, dark red, sans-serif font. The 'U' is on the left and the 'L' is on the right, both centered vertically within the circle.

UL

SUPPORTING PRODUCT INNOVATION. BEYOND CERTIFICATION.

UL understands the complexities of the product development process. Drawing on over 120 years' industry experience and knowledge, we designed services to help bring your label to market quickly. Whether it is a new market, an application requiring research or even non-standard industry requirements, UL enables collaboration across the value chain, so when the next opportunity arises you can move on it swiftly. All of our services are modular, allowing you to pick and choose one or a combination of solutions based on your needs.

LABEL VALUE CHAIN

MATERIAL SUPPLIERS

Stocks, overlaminates and laminating adhesives evaluated individually

LABEL PRINTERS AND CONVERTERS

Printed labels evaluated as a complete system to ensure they work together

ORIGINAL EQUIPMENT MANUFACTURERS

Ability to select evaluated labels suitable for their product

UL'S MODULAR SERVICES FOR LABELS AND LABEL MATERIALS

Market Development Services

Platform Research & Innovation Services

Project Management & Advisory Solutions

Validation and Performance Testing

Certification Services

MARKET DEVELOPMENT SERVICES



Whether enhancing a new label design or identifying a new label application, the challenges of market launches are vast.

UL's subject-matter experts offer market development services on industry trends, requirements for regulatory compliance, and market analytics – supporting your successful market launches.

MARKET INSIGHTS

With decades of experience in various end-product markets, UL subject matter experts offer insight and guidance on market trends, global regulations and compliance schemes, and performance and safety challenges.

Working with UL in the early stages of your development process helps you identify new market opportunities, allowing you to make informed decisions regarding where to focus your efforts.

MARKET ENTRY

UL helps manufacturers and suppliers by offering private and public workshops on the most popular UL label programs. This allows a company or new hires to bring key staff up to speed quickly on ever changing global requirements.

UL also offers webinars, trainings, e-learning and more for numerous global regulations and standards. These market entry offerings are designed to bring you up to speed quickly on critical issues to improve your time to market.

PRODUCT PROMOTION

The strength, recognition, and reliability of the UL brand can be valuable when promoting your products and gaining confidence in the global market. UL allows your labels to be evaluated and then promoted to a customer in any manner of your choosing including through UL's iQ™ for Labels database: iQ.UL.com/labels

By collaborating with UL and leveraging the UL brand, you're better equipped to differentiate your company from the competition.



PLATFORM RESEARCH & INNOVATION SERVICES

Rapid learning occurs during research and development. By collaborating with UL from the earliest stages of a product's lifecycle, you can make better informed design decisions while minimizing risk.

From systematic studies and predictive modeling for product research and development to new test development, independent benchmarking and root-cause/forensic analysis, UL's materials and end product expertise enables confidence in having made the right choices while developing new products. Some of UL's extensive global capabilities include:

- FORENSIC / FAILURE ANALYSIS
- END PRODUCT TESTING & ANALYSIS
- CHEMICAL ANALYSIS
- FLAMMABILITY PROPERTIES ANALYSIS
- MECHANICAL PROPERTIES ANALYSIS
- BENCHMARKING
- ROOT CAUSE ANALYSIS
- PREDICTIVE MODELING
- NEW TEST DEVELOPMENT

PROJECT MANAGEMENT & ADVISORY SOLUTIONS

Our high-touch end-to-end services help you to smooth your certification process, avoid delays and get products to market effectively.

Several decisions must be made when pursuing certification and, with UL, navigating this process can save you time and money. UL understands that customers have unique needs and interests and we make everything before certification easier than ever by offering complete project management and advisory services, guiding you every step of the way. With UL's unique modular approach, you can even begin collaborating with UL anywhere within your product development process.





PERFORMANCE AND VALIDATION TESTING

UL is equipped to handle a variety of label requirements, including recognized test methods in ASTM, IEC, CSA, UL, Automotive, Military, and custom OEM specifications.

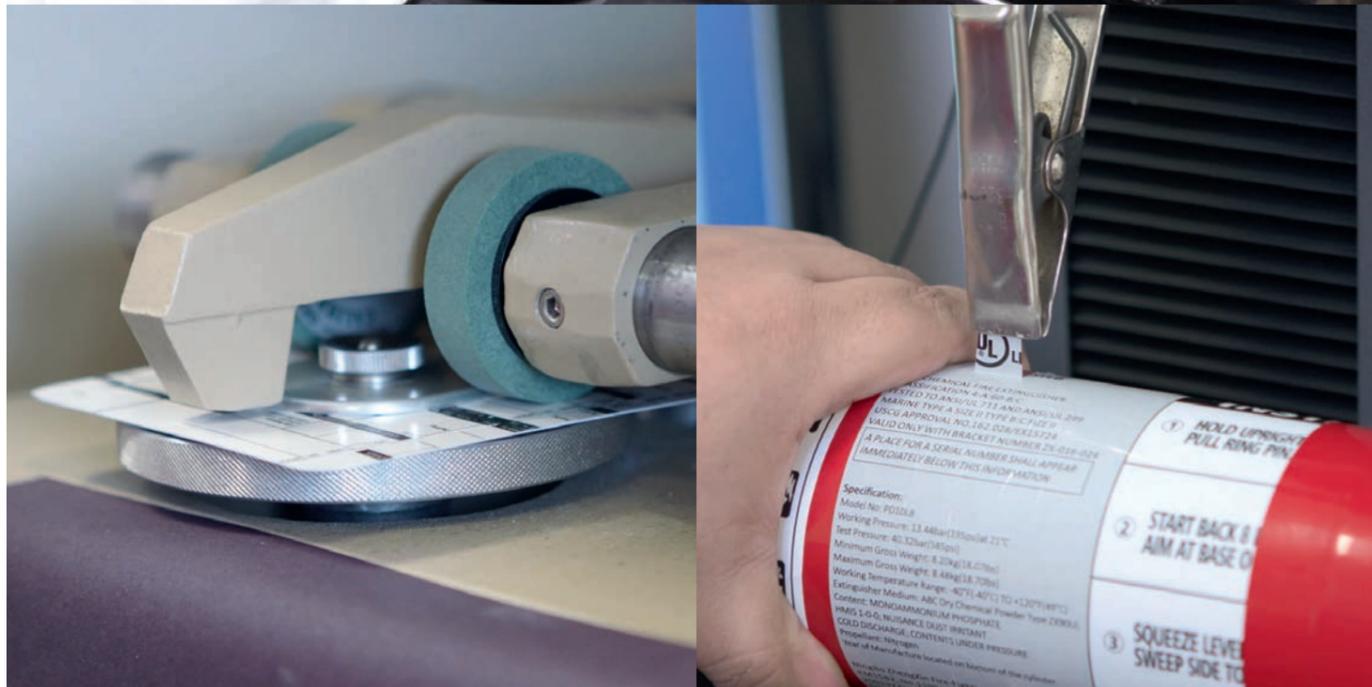
UL's range of tests allows companies to test and verify that the labels perform to both the expectations of the supplier and end-user. Our compliance testing services include:

- ADHESIVE PEEL AND ABRASION
- ELONGATION AND TENSILE BREAK
- ELEVATED AND LOWERED TEMPERATURE EXPOSURES
- UV AND WATER EXPOSURES
- CHEMICAL EXPOSURES

AUTOMOTIVE LABEL TESTING

UL is able to test and verify compliance to leading automotive label requirements including the majority of the test clauses with respect to adhesive attached labels on rigid surfaces in:

- GM STANDARD GMW14573
- FORD STANDARD WSS-M99P41
- CUSTOM OEM REQUIREMENTS
- VW STANDARD TL 52038





CERTIFICATION COMPLIANCE AND FOLLOW UP SERVICES

Though UL's expertise can benefit the entire product development lifecycle, certification remains at the core. The UL 969 standard, first published in 1978, is referenced in nearly 500 UL and ULC standards.

CERTIFICATION

To establish certification, samples of label material and labels are evaluated at UL. If the samples fulfill all applicable requirements, it authorizes the manufacturer to use the UL certification mark in conjunction with those label materials and labels and issues a certificate that the labels are now certified by UL. A report of the evaluation is provided to the manufacturer. Before the manufacturer releases products with the UL Recognized Component Certification Mark, the manufacturer must agree with the Follow-up Service procedure.



FOLLOW-UP SERVICES

UL's Follow-Up Services distinguish us from other certification service providers and is fundamental to the integrity of the UL Mark that appears on 21 billion products annually. For a product to bear a UL Certification Mark, it must not only comply with

the applicable requirements when initially evaluated but also maintain compliance with safety requirements as it is being produced on an ongoing basis. Throughout the lifetime of the UL certification, products undergo regular inspections and/or sample selection at manufacturing facilities to verify continued compliance with requirements. Manufacturers and UL share the common goal of seeing only those products fully complying with applicable safety requirements are produced and carry the UL Mark.

IQ™ FOR LABELS DATABASE

All certified Marking & Labeling Systems and Authorized Label Suppliers are published in UL's iQ™ for Labels database. This database contains over 1500 companies offering more than 15,000 UL Certified Component marking and labeling systems (UL Recognized Components) and is accessed by more than 350,000 design engineers and converters. The database is searchable by compliance attributes, company name, file number, and product type.

MARKING AND LABELING SYSTEMS



LABEL ADOPTION

Label converters and printers who use Recognized label materials (label stocks, laminating adhesives, overlaminations) and inks can receive the benefit of the Recognition established for the label material when establishing Recognition for their printed labels. Label adoption is the most convenient, cost-effective way for printers and converters to establish UL Recognition for their labels.

MARINE USE



UL's Marking and Labeling Systems program covers labels (nameplates or markers) and label materials that have been submitted to UL for evaluation in accordance with prescribed permanence of marking performance requirements so they can be used to display information on products.

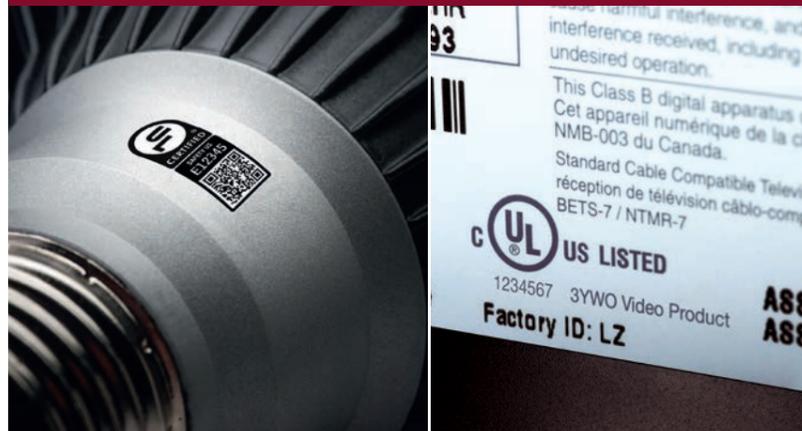
Labels and label materials are typically tested in accordance with the test methods in one or more of the following standards:

- ANSI/UL 969, "MARKING & LABELING SYSTEMS"
- CANADIAN STANDARD, CSA C22.2 NO. 0.15, ADHESIVE LABELS
- IEC MARKING DURABILITY RUB TESTS
- UNIQUE LABEL REQUIREMENTS IN A SPECIFIC UL END-PRODUCT STANDARD

UL's 'Marine Use' Marking & Labeling certification program specifically covers labels and label materials intended to durably mark dangerous and/or hazardous goods (such as chemical containers or drums) for marine transport in international waters.

UL's testing and certification services to the **BS 5609:1986** specification for printed, pressure-sensitive adhesive coated labels for marine use help ensure easy identification of items lost at sea.

AUTHORIZED LABEL SUPPLIER PROGRAM



Ensuring the integrity of the UL Certification Mark is essential to retaining that confidence, and protecting our customers' investment in their UL certifications. To gain the authorization required to produce labels featuring the UL Registered Certification Mark, label printers must participate in the Authorized Label Supplier Program and comply with all of its requirements.

Participation in the Authorized Label Supplier Program enables label printers to provide UL Certification Marks to their customers.

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