



Recycled plastics

Substantiate that your recycled plastics are safe and sustainable



Safety certification and environmental claim validation for recycled plastics

In a world where the supply of fossil-based raw materials should be diminishing, as customers demand environmentally friendly products, sustainable resins are urgently needed. Plastics producers can now help product manufacturers use recycled plastics to achieve both their sustainable and product safety requirements.

UL's safety certification program evaluates plastics with recycled content (pre- or post-consumer from multiple sources) for compliance with UL safety Standards for use in components and end-products where UL's requirements are defined. This meticulous safety certification program enables recycled plastic to have the same level of acceptability as a virgin compound in end-use applications when they require compliance with UL Standards, such as UL 94, the Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances, UL 746A, the Standard for Polymeric Materials - Short Term Property Evaluations, and UL 746B, the Standard for Polymeric Materials - Long Term Property Evaluations.

These UL safety Standards are globally recognized and have been around for decades. The requirements for recycled plastics in UL 746D, the Standard for Polymeric Materials - Fabricated Parts, were written to ensure that recycled materials comply with the applicable requirements when the material is initially evaluated and maintain compliance on an ongoing basis.

Did you know?

UL has helped develop over 1,600 safety standards to reduce the risks of fire, electric shock and personal injury. Many of these standards include plastic requirements that define the burning, ignition, electrical tracking and other physical and mechanical characteristics to determine the plastic is suitable for its application.



UL's Environmental Claim Validation program for recycled plastics validates the percentage of post-consumer, pre-consumer (post-industrial), or total recycled content of a product, and/or as the source of the recycled plastic, e.g., ocean plastic or ocean-bound plastic. The environmental claim validation is conducted in accordance with UL 2809, the Standard for Environmental Claim Validation Procedure (ECVP) for Recycled Content. It provides transparency that the recycled plastic has been audited by an independent third-party and delivers the claims the manufacturer is making. This allows you to communicate environmentally preferable recycled content attributes clearly and credibly to your customer.

The safety certification and environmental claim validation are designed to provide you with powerful tools for differentiation in an increasingly cluttered marketplace. It empowers you to enter new markets by:

- **Extending your customer reach** – Once your material is found to meet UL's requirements, the information is made available on UL Product iQ®, UL SPOT Product Database and UL Prospector®. This enables manufacturers searching for recycled plastics to easily find your product.
- **Access to industry experts** – You have access to the expertise and experience of UL's engineers to guide you in making sure products meet applicable safety standards and that appropriate claims are made to avoid greenwashing.
- **Providing quality and trust** – Manufacturers can rely on one of the world's most trusted names in third-party product safety and sustainability – UL.
- **Safeguarding your brand** – Once the material meets the certification requirements, we continue to work with you, so the products undergo periodic assessments and inspection. **This way, your customers will have confidence that newly manufacturer product meets the same certification requirements, on an ongoing basis.**

While UL's safety certification programs helps demonstrating that your recycled plastics perform and comply with the related standards, UL's Environmental Claim Validation program is designed to substantiate to the marketplace that recycled plastics, in fact, live up to their statements. We encourage you to contact UL to learn more about which services are best for your needs.



New to UL?

Since 1894, UL has the expertise and resources to meet your needs. Contact us, and we will help you navigate what is best for you and your company.

How to get started:

For more information and to get started, visit [UL.com/plastics](https://ul.com/plastics).

About UL

UL is a global safety science leader. We deliver testing, inspection and certification (TIC), training and advisory services, risk management solutions and essential business insights to help our customers, based in more than 100 countries, achieve their safety, security and sustainability goals. We believe our deep knowledge of products and intelligence across supply chains make us the partner of choice for customers with complex challenges. Discover more at [UL.com](https://ul.com).

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