



# Material Substitution and Modification for Plastics

## An expert solution to a global need

Let's face facts — plastic users and manufacturers continue to encounter numerous difficulties fulfilling customer orders for essential items such as electrical components and consumer products. Whether these challenges occur because of issues related to the economy and the pandemic (production shutdowns, transportation delays and supply chain issues), or in the form of state regulations restricting certain chemicals in plastics that now require material substitution or modification, the results are the same — higher costs, material substitution or modification requirements increasing production times, longer paths to market, and ultimately, frustration across the board. Fundamentally, plastic users and manufacturers need resources for material substitutions to quickly get their production and delivery processes back on track. And UL Solutions can help.

Our material substitution and modification for plastics service helps you find and source alternative materials to eliminate the need to recertify or, at minimum, shorten the path to certification. Working with UL Solutions helps give you the tools and expertise needed to meet global compliance requirements, reach sustainability goals, verify performance, minimize business disruptions and solve supply chain challenges so you can access global markets as quickly as possible.

## How we can help

Whether it's supply chain or regulatory issues driving you to seek alternatives in raw materials, we can help your business:

- Find material alternatives to keep production flowing.
- Meet regulatory requirements for safety and global market access.
- Reduce testing times and complexity.
- Confirm performance and material integrity.

### Performance credentials

Our Plastics Recognition Program, also known as the UL Solutions Yellow Card™, is a globally recognized safety and quality assurance program that helps you demonstrate your plastics meet performance credentials. And it plays an essential part in our material substitution and modification for plastics service as it differentiates materials and allows downstream manufacturers to save time certifying end-products.

Specifically, the Yellow Card lists multiple safety and performance-related properties for a polymeric material that UL Solutions has certified to appropriate standards. It can also include more performance credentials, like Restriction of Hazardous Substances (RoHS) or non-halogenated (non-Hal), which verify industry requirements. The Yellow Card demonstrates that a recognized material is appropriate for defined applications. It also offers confidence that comes from knowing that you are using a proven material and that an independent certification body regularly monitors that material.





### Trust in our safety science expertise

As a leading global provider of plastics testing, we're proud of our reputation in the world of safety science. We believe in forming trusted partnerships that:

- Offer comprehensive testing, certification, assessment and regulatory compliance services that help foster innovation, enhance quality, empower safety and meet business goals.
- Allow you to take advantage of our cost- and time-saving services

and our integrated testing and certification plans to help you get to market quickly.

- Access Yellow Card in the UL Product iQ® and UL Prospector® databases, allowing designers, engineers and suppliers to easily find UL Recognized materials.
- Show Yellow Cards with the UL Recognized Component Mark, which helps reduce repetitive material testing, shortens certification paths and increases your speed to market.

### Partner with us for a smoother path to market

Whether you're a plastics user or a plastics manufacturer, our material substitution and modification for plastics service offers you the tools and expertise to help manage and mitigate supply chain disruptions as well as your specific challenges.

Get started today. Connect with our plastic materials expert to learn more or visit [UL.com/materialsub](https://www.ul.com/materialsub).



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EM23CS920819