



# Plastics, Polymers & Composites

## Antimicrobial Benefits

Ultra-Fresh® can offer valuable protection for polymers. It can be incorporated into a wide variety of plastics & polymeric materials to prolong their life, maintain their aesthetic appeal, or reduce surface bioburden. Our antimicrobial treatments are applicable to all types of polymer manufacturing including injection or rotational moulding, extrusion, blown film, calendaring or coatings.

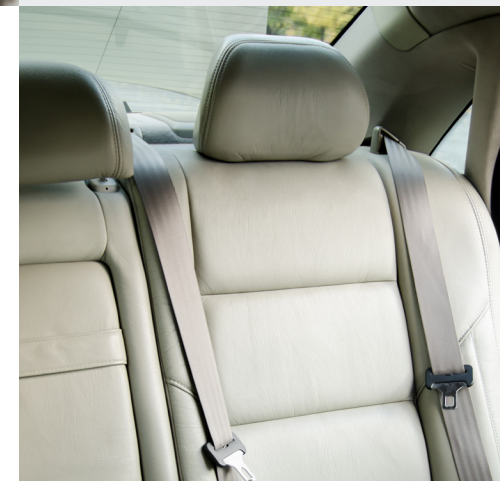
## Easily Applied

Ultra-Fresh can be applied by direct addition or as a masterbatch concentrate. Ultra-Fresh masterbatches can be supplied in carriers suitable for most polymers including PVC, PE, HDPE, PP, polyamide, polyester, ABS, polycarbonate and styrenics. We can even apply Ultra-Fresh to elastomeric polymers and rubbers such as TPEs and TPVs.

We can cater to transparent grades, particularly ABS and polycarbonate, and have Ultra-Fresh antimicrobial products designed for these applications. Several Ultra-Fresh treatments are EPA food contact approved, FDA compliant and included in the European EFSA guidelines. Ultra-Fresh silver products are also suitable for high temperature processing applications. Whatever your end-use, Ultra-Fresh has an option that provides excellent protection for all of your performance needs.

## Why Use Ultra-Fresh in Your Plastics, Polymers & Composites

- Can be applied by direct addition or masterbatch concentrate
- We can supply masterbatches in a variety of resin carriers
- Products available for high temperature applications
- We offer both antibacterial and antifungal options
- Food contact options also available



## End Use Applications

Our antimicrobial products are commonly used in the following plastic applications:

- Housewares
- Commercial
- Apparel
- Building Products
- Healthcare

Treatment options are available for virtually all end uses. Please contact us for more information.



Visit [ultra-fresh.com](https://www.ultra-fresh.com) to learn more and get in touch with an Ultra-Fresh representative.

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