ENHANCE PROTECTION & INHIBIT BACTERIAL GROWTH

WITHSTAND[™] ANTIMICROBIAL SOLUTIONS FOR ELECTRONIC ACCESSORIES

The use of electronic accessories is growing by leaps and bounds, and that isn't likely to change. For example, on average, Americans now check their cell phones 47 times per day¹—that's a lot of times to touch a phone case that has been shown to carry 10x more bacteria than a toilet seat²! Studies have found serious pathogens on phones, such as streptococcus, MRSA, and E. coli, so the importance of protecting cases, game controllers, television remotes and other accessories is paramount.

WithStand[™] antimicrobial additives are designed to be molded into plastic components to enhance product performance. These antibacterial and antifungal additives reduce growth of bacteria, mold and fungus on the surface and through the thickness of the plastic part. They may also help to reduce odor or discoloration in certain applications.

Efficacy performance and regulatory requirements are met in a wide range of resins compatible with WithStand antimicrobial technology. Specifically, these additives have been proven to be effective inhibiting E. coli and MRSA across these resins:

ABS

- TPE/TPU PET
- HDPE
- POM PP
- PC

Custom formulations can be validated for various resin types, and under specific processing conditions, at an independent testing lab to ensure results in commercialization. Avient technology centers across the globe offer regulatory support and product stewardship expertise to help qualify products.

WithStand antimicrobial additives can be combined with colorants or other functional additives in a single masterbatch or liquid solution to get the exact performance needed. They are available for processes including extrusion, injection molding, blow molding, rotational molding and thermoforming.



1. https://www2.deloitte.com/us/en/pages/technology-media-and-telecommunications/articles/global-mobile-consumer-survey-us-edition.html



2. https://cals.arizona.edu/news/why-your-cellphone-has-more-germs-toilet

ANTIMICROBIALS FOR PLASTICS

Effective in reducing bacterial growth across a range of polymer resins



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