

POLYESSENCE®

SPECIALTY MATERIALS



POLYESSENCE® is a fragrance masterbatch that embeds long-lasting scent directly into plastics like PE, PP, EVA, and PVC. Designed for use in toys, packaging, household items, automotive interiors, and personal care goods, it enhances product appeal with consistent scent release, without the mess or volatility of liquid fragrances.



OVERVIEW

How does it work?

Our odor control technology goes beyond mere fragrance-masking by actively neutralizing unpleasant odors at the molecular level. Utilizing proprietary ingredients, it forms ionic and covalent bonds with odor-causing molecules, converting them into non-volatile compounds that are undetectable by the human nose. This method effectively traps malodors within the polymer

matrix, achieving a true chemical transformation that eliminates odors rather than masking them. It neutralizes 95% of various odors, including those from ammonia, cigarette smoke, and body odor. Whether applied in consumer goods, packaging, automotive, or industrial settings, POLYESSENCE® provides a scientifically advanced and dependable solution for managing odors.

Main features

Long-Lasting Fragrance – Delivers consistent, controlled scent release over time

Long-Lasting Effect – Locks odors in the polymer matrix for lasting control

Dry & Dust Free Pellets – Cleaner and simpler than liquid fragrance systems

Low-Shear Process Compatibility – Preserves delicate fragrance oils during molding

Compatible with Multiple Resins – Works with PE, PP, EVA, and PVC

Customizable – Available in tailored colors, fragrances, and concentrations

Uniform Distribution – Ensures even scent dispersion throughout the finished product

Versatile Processing – Suitable for extrusion, injection molding, and blow molding

Neutralizes Up to 95% of Odors – Targets ammonia, sulfur compounds, smoke, pet, and body odors

TYPICAL APPLICATIONS

- **Consumer Goods & Packaging** - Scented shampoo bottles, air freshener holders, scented garbage bags, food-grade containers.
- **Toys & Children's Products** - Scented dolls, erasers, slime, flavored teething toys, odor-masked plastic toys.
- **Household & Cleaning Products** - Scented mop buckets, sponges, deodorizing trash cans, storage bins, scented trash plastic bags.
- **Food Contact & Packaging** - Flavored straws and spoons, chewing gum wrappers, flavored blister packs, scented beverage caps.
- **Textiles & Footwear** - Scented insoles, odor-control gym mats, fragrance-infused synthetic leather.
- **Automotive Interiors** - Scented vent clips, dashboard plastics, odor-neutralizing floor mats and trunk liners.
- **Industrial & Storage Products** - Odor-masking plastic pallets, bins, recycled plastic containers with embedded scent control.

SUPPORT

Compliance

POLYESSENCE® can be formulated to be compliant with certain guidelines. Ask our experts to see what different types of compliance, certification, or accreditation is available for your product.

Care & Maintenance

POLYESSENCE® is a synthetic product. When treated with care and the correct products, POLYESSENCE® will have a long and durable shelf life. Contact our technical experts for specific tips and advice.

PROVEN PERFORMANCE

POLYESSENCE® can be tested on demand for various properties:

- Fragrance intensity release
- Softening point
- Density
- Melt flow rate
- Pellet count

POLYESSENCE® boasts several enhancement options:

- Fragrance type
- Fragrance concentration levels
- UV protection
- Antimicrobial properties



FORMULATING THE RIGHT MIX.

Since 1976, the Protech Group has been developing and manufacturing coatings, paints, and specialty materials. Through quality and innovation, we formulate the right mix to protect and enhance what matters most to our customers. Protech Group products are manufactured in more than 20 sites worldwide. We serve our customers in countless markets and industries, including construction, infrastructure, transportation, consumer goods, and healthcare.



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