Plastics are prized for their light weight, design flexibility, reduced transportation cost, and more sustainable imagery.

Inhance Technologies’ unique Fluoro-Seal Process™ provide innovative benefits for plastics helping Consumer Product Goods designers and engineers improve performance, manage costs, reduce design complexity, and enhance the durability of their products.

Polyolefins are among the most broadly used plastics today in the Consumer Product Goods market due to their excellent properties, performance, and sustainability.

While polyolefins tend to be excellent containers for many products, these polymers have inherently poor barrier to organic solvents and low surface energies, and may not be suitable for all product formulations.

By utilizing our Fluoro-Seal Process and Reactive Gas Technology, designers and engineers can address these challenges, providing greater flexibility in creating the products of tomorrow while enhancing the products of today.

**APPLICATIONS**

**Skin & Hair Care**
- Face moisturizers
- Soaps
- Colorant treatments
- Shampoo & Conditioner
- Hair styling products

**Cosmetics & Fragrances**
- Fragrances
- Make-up brushes
- Liquid foundation
- Eye makeup
- Lipstick tubes
- Mascara

**Health Care**
- Neautriceuticals

**Inhance**
- Wound Care
- Pet Care
- Non-Wovens

**Grooming**
- Shave gels
- Razors
- Deodorant
- Brushes

**Oral Care**
- Toothbrushes
- Toothpaste
- Rinses

**Baby Care**
- Baby Utensils
- Diapers
**BENEFITS OF REACTIVE GAS TECHNOLOGY™**

- Diminished migration of aromatic ingredients enables longer product life for fragrances
- Enhanced adhesion can help manufacturers sustain their printed brand image through the lifetime of the product, while enabling usage of water-based inks and adhesives
- Increased surface energy and modified surface chemistry allow for better wetting and adhesion across different material substrates
- Long-lasting treatment enables manufacturers to store intermediate finished goods long-term for future printing/usage
- Enhanced wettability of products enables moisture management
- Improvements in lubricity and wear properties help to extend the life time of a product

**BENEFITS OF FLUORO-SEAL PROCESS™**

- Enables consistent and uniform surface modification of plastics parts regardless of size and complexity enabling full surface treatment - inside and outside
- Prevents content loss, flavor loss, container paneling, label flagging, discoloration, softening, and odor emissions
- Greatly reduces permeation through and absorption of contents into the container wall

**ADDRESSABLE FORMULATION INGREDIENTS**

<table>
<thead>
<tr>
<th>Arachis Hypgaea Oil</th>
<th>Isoeicosane</th>
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<tbody>
<tr>
<td>Avena Sativa Kernel Oil</td>
<td>Isohexadecane</td>
</tr>
<tr>
<td>C10-11 isoparaffin</td>
<td>Isooctane</td>
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<tr>
<td>C10-13 isoparaffin</td>
<td>Isopentane</td>
</tr>
<tr>
<td>C11-12 isoparaffin</td>
<td>Lanolin Oil</td>
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<tr>
<td>C11-13 Isoparaffin</td>
<td>Limomene</td>
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<tr>
<td>C12-14 Isoparaffin</td>
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<tr>
<td>C13-15 alkane</td>
<td>Octane</td>
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<tr>
<td>C13-16 Isoparaffin</td>
<td>Octene</td>
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<td>Olea Europaea Fruit Oil</td>
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<tr>
<td>Decene</td>
<td>Papaver Orientale Seed Oil</td>
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<tr>
<td>Diethylhexyl 2,6-naphthalate</td>
<td>Pentane</td>
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<tr>
<td>Dimethyl ether</td>
<td>Petroleum Distillates Toluene</td>
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<tr>
<td>Dodecene</td>
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<tr>
<td>Heptane</td>
<td>Zea Mays Oil</td>
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<tr>
<td>Isododecane</td>
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