



IMSS™ Technology for Automotive Interiors

A Higher Performing, Sustainable Alternative to Traditional PVC Soft Skins

IMSS technology, powered by Kraton's innovative, ultra-high flow thermoplastic elastomers (TPE), is a revolutionary injection molding technology for IP skins. This technology allows the injection molding of large, thin-walled soft skin parts, including instrument panel skins as thin as 1 mm. IMSS offers the newest generation of TPE polymer chemistry, soft-touch haptics, and vehicle weight savings. IMSS can be effectively used on standard equipment and under normal processing conditions, using skin-only and over-molded injection molding processes.

Additionally, this technology enhances automotive interior manufacturers' ability to increase efficiency and decrease their energy consumption & material usage while reducing system costs. Kraton's TPE technology, combined with the dedicated product support from our technical team, has proven to be the key pillars of customer technological success, allowing us to meet both the process and performance requirements of the injection molding system.

FEATURES

- » Reduced Odor & Fogging
- » Improved Aging Performance
- » Lowered Specific Gravity



First Commercial Launch - SAIC-GM 2021 Buick GL6

Industry Leading Technology

In addition to enhancing manufacturing productivity and cost-efficiency, the use of IMSS technology enables many performance benefits such as:

- » Very high flow properties for thin-wall molding
- » Excellent cold temperature flexibility, even after long-term heat aging and weather meter testing
- » Aesthetically acceptable soft surface without the need for painting
- » Globally acceptable VOC and odor performance via IMSS compounds with minimal plasticizer loading
- » Improved consumer in-car safety

IMSS looks and feels great in applications such as instrument panels, trim panels, and center consoles. This innovative solution can also play a critical role in helping OEMs reach their sustainability targets by contributing to environmentally responsible and carbon footprint neutrality initiatives like vehicle light-weighting and recyclability while enabling the reuse of scrap and production trim waste.

Enhanced Sustainability

- » Weight Reduction Enabling Greenhouse Gas Reduction*
- » Improved Processing Efficiency
- » Elimination of Coating Step
- » Recyclable Skin Design

Faster

- » 70 Seconds/Part
- » No Surface Painting Needed
- » Automated Robotic Molding
- » Faster Development Time

Economical

- » Reduces Tooling Cost
- » Lowers Process Cost
- » Saves Labor Cost

Better

- » Low VOCs & Odor
- » Little/ No Plasticizer
- » Safer Airbag Deployment
- » Improved Design Flexibility
- » Colorability

IMSS™
benefits

*~8KG of Greenhouse Gases during vehicle lifetime per 0.4 kg of vehicle weight saving

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