

# Milliken®

## DeltaMax™ i300

### Impact Enhancer for Polypropylene

## TECHNICAL DATA

DeltaMax™ i300 is a high performance impact enhancer designed for use in injection molded applications of polypropylene impact copolymers and in recycled polypropylene resins. DeltaMax™ i300 maximizes impact performance while optimizing melt flow rate (MFR) for improved physical properties and processability of polypropylene.

### Features and Benefits

- Maximizes impact properties.
- Shifts failure mode to partial and non break characteristics.

### Dosing Conditions

- DeltaMax™ i300 can be added machine side at the feed throat or hopper between 0.5% - 1.0%.
- DeltaMax™ i300 can be added to impact copolymer and recycled polypropylene resins.
- Not recommended for use in virgin homopolymer PP, virgin random copolymer PP or virgin/recycled polyethylene.

### Processing Conditions

- Suggested processing temperature: 195 - 250°C (380 - 480°F).
- Increase in melt flow may cause flashing. This can be resolved by reducing temperature, back pressure and/or shot size.
- Once process is stabilized, cycle time and temperatures are expected to be lower.
- Maintain dosing below 2.0% to avoid excessive change in rheology, odor or other by-products.
- Purging required to avoid residual color and peroxide from DeltaMax.

### Typical Properties

- **Appearance:** Orange/yellow color
- **Product Form:** Pellet masterbatch
- **Pellets per gram:** 45-55
- **Loading:** 0.5% - 1.0%



### Packaging Options

- Fully recyclable, 500 kg cardboard gaylords.
- Fully recyclable, 20 kg bags.

### Storage Guidelines

Product shelf life is 12 months from date of manufacture when not exposed to direct light, and product is kept dry and sealed when not in use. Product should always be stored below 40°C and away from sources of ignition such as flames or sparks.

**Please contact your Milliken representative for further product information including chemical registrations, food contact status, and other regulatory details.**

PLEASE NOTE: As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at [www.milliken.com/terms](http://www.milliken.com/terms) (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.

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