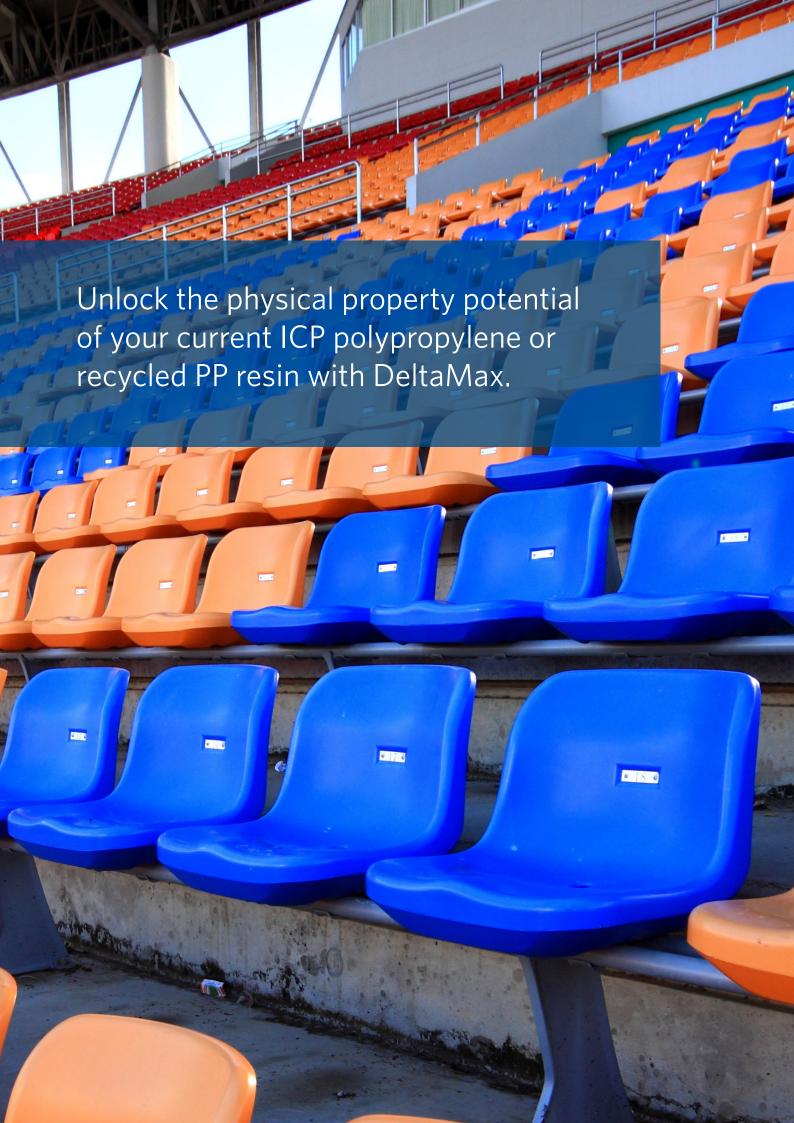
Milliken®

DeltaMax®

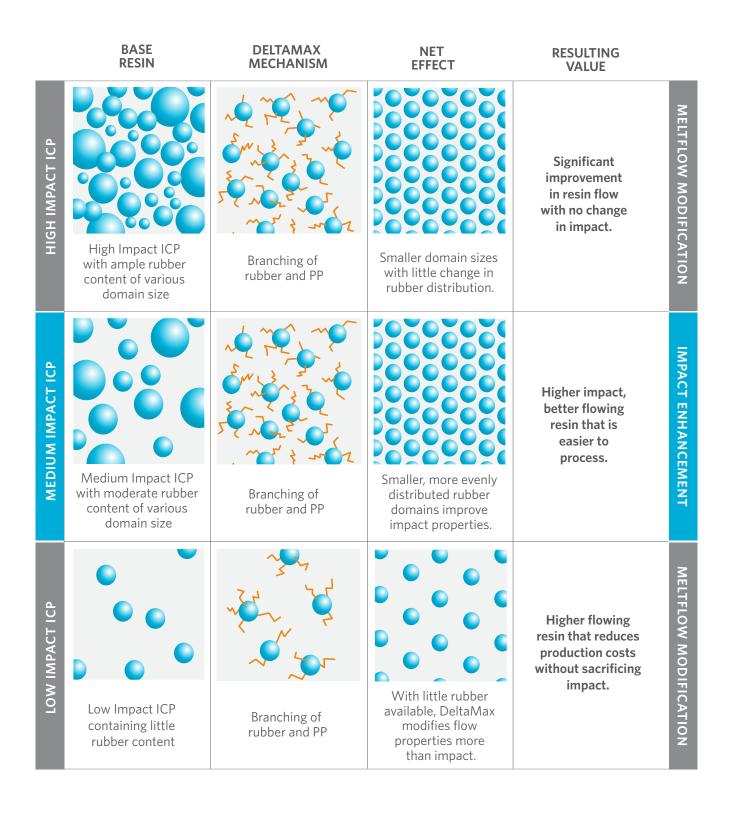
Performance Modifiers for Polypropylene



Milliken



HOW IT WORKS



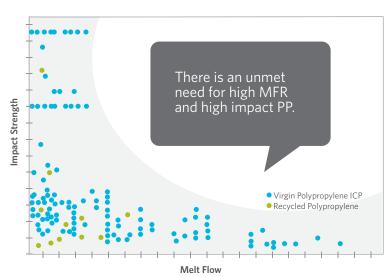
DELTAMAX®

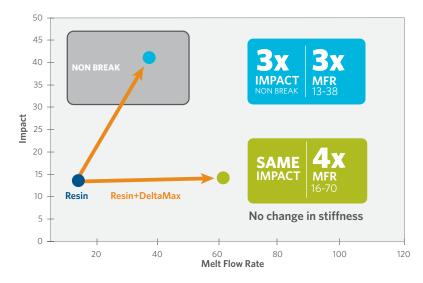
Performance Modifiers for Polypropylene

DeltaMax® Performance Modifiers are a family of masterbatch products designed for use in injection molded applications of virgin polypropylene impact copolymers and recycled polypropylene resins. While polypropylene is a cost-effective material, it is limited with respect to providing a balance of high impact with stiffness and melt flow making it difficult to cost-effectively formulate, design, and process parts. This is particularly the case for recycled polypropylene resins, which typically lack high melt flow and impact properties required for many injection molded applications within consumer, industrial, and automotive markets.

DeltaMax Performance Modifiers maximize the physical properties and processability of polypropylene in a way that transforms the virgin and recycled PP markets. The technology enables converters to enhance the impact and melt flow of their ICP or rPP resins by adding a masterbatch at injection molding machine-side. The net effect is the ability to design parts with higher impact and thinner profiles, run machines with faster cycle times or lower temperatures, reduce the use of costly impact modifiers, and reduce inventory of multiple ICP resins. Additionally, DeltaMax Performance Modifiers allow for the use of recycled PP at equal or better performance levels compared to virgin resins. This creates an opportunity to improve the circular economy and promotes more sustainable manufacturing practices.

DeltaMax Performance Modifiers extend the performance boundaries of PP impact copolymers















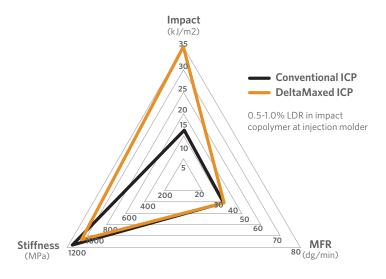


MASTERBATCHES DEFINED



DeltaMax® i300 Impact Enhancer

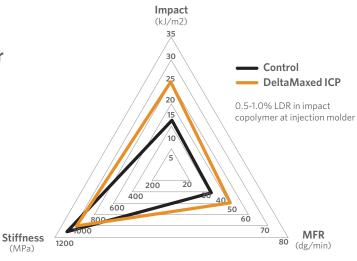
DeltaMax i300 is a high performance impact enhancer designed for use in injection molded applications of polypropylene impact copolymers and recycled polypropylene resins. DeltaMax i300 maximizes impact performance while optimizing melt flow rate (MFR) for improved physical properties and processability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





DeltaMax® f500 All-Purpose Modifier

DeltaMax f500 is an all-purpose modifier designed for use in injection molding applications. This additive improves the meltflow rate (MFR) and impact performance of both polypropylene (PP) impact copolymers and recycled polypropylene (rPP) resins. This new grade offers the additional benefit of being colorless.













CASE STUDIES



Maximize Impact Properties

An industrial bucket and pail manufacturer is attempting to formulate a high impact, non break solution for a leading retailer.

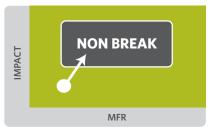






STIFFNESS 830-800
MINIMAL CHANGE IN STIFFNESS







Maximize Melt Flow Properties

A housewares manutacturer must reduce production costs by optimizing operating efficiencies and increasing processing speeds.















Maximized Sustainability

Based on a new sustainability initiative, a leading housewares manufacturer has been tasked with increasing the amount of recyclec plastics being used without sacrificing physical properties.













Milliken* DeltaMax*

Performance Modifiers for Polypropylene

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

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