

Milliken® DeltaMax™ Performance Modifiers for Polypropylene

CASE STUDY

Maximize Impact Properties

CUSTOMER NEED

An industrial bucket and pail manufacturer is attempting to formulate a high impact, non break solution to meet new specifications for a 3.0m drop test. Complexity in formulation and the high cost of impact modifier additives has resulted in limited options in the market. Additionally, low Melt Flow Rate (MFR) resins result in slow processing times.

CURRENT SITUATION

Traditional ICPs can be costly, hard to source and require additional inventory of multiple resins for converters.

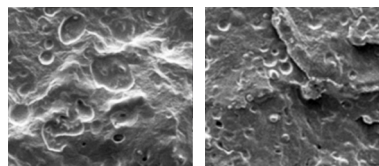
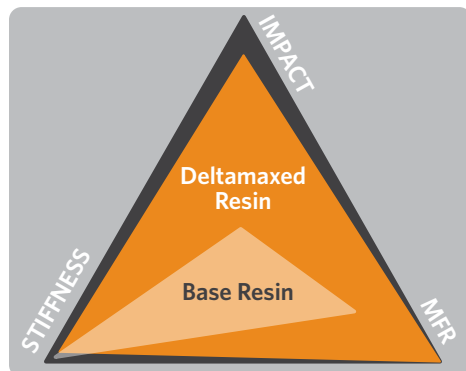
MILLIKEN SOLUTION

DeltaMax i300 Impact Enhancer allows converters to take a conventional low to medium impact copolymer and increase the impact performance up to 3x, improving the failure mode to partial or non-breaks. DeltaMax i300 Impact Enhancer will also improve the Melt Flow Rate for faster processing speed.



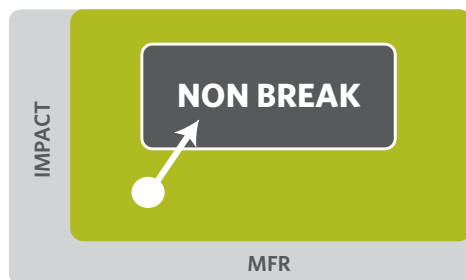
RESULTS

Improvement in impact properties allowed the customer to make a pail that passed the 3.0m drop test. In addition to this performance improvement, the increase in melt flow allowed the manufacturer to make more pails with a faster cycle time generating more profit.



WITHOUT DELTAMAX

WITH DELTAMAX



Please contact your Milliken representative for any additional information.

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