

Milliken®

DeltaMax™

Performance Modifiers for Polypropylene

Maximize Sustainability



CASE STUDY

CUSTOMER NEED

Based on a new sustainability initiative, a leading converter in the home improvement category has been tasked with increasing the amount of recycled plastics being used without sacrificing physical properties. Attempts to increase usage levels of rPP have historically resulted in slower processing speeds, higher processing temperatures and material failures due to cracking.

CURRENT SITUATION

While very affordable, recycled polypropylene resins typically lack the impact and melt flow properties required for many end-use applications. This results in less usage of recycled PP, which adds unwanted costs and contributes unfavorably to landfill waste.

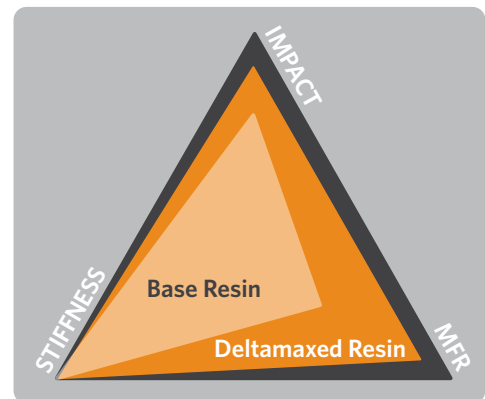
MILLIKEN SOLUTION

DeltaMax Performance Modifiers maximize the physical properties and processability of recycled PP at equal or better performance compared to virgin resins. This provides converters with a cost-effective solution that improves the circular economy, while promoting more sustainable manufacturing practices.



RESULTS

By increasing the impact properties and melt flow rate of the recycled PP, the converter made their home improvement part using 100% recovered plastic, compared to 20% previously. This reduced the cost of raw materials and reduced waste to landfill, while making more profitable, higher performing products. The converter also decreased carbon emissions by 45 lbs/ton of PP produced.



Paint tray made with 100% Recycled PP

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