

Milliken® DeltaMax™

Performance Modifiers for Polypropylene

CASE STUDY

Reduce Cycle Time & Processing Temperatures

CUSTOMER NEED

A housewares manufacturer wishes to optimize operating efficiencies by lowering run temperatures and increasing processing speed. Their molding equipment runs 24/7 at full capacity, which limits line expansion with new and existing customers. Additionally, it is critical this customer find a solution that does not sacrifice impact properties while improving processability.

CURRENT SITUATION

Typically, low impact ICPs with MFR between 35-50 provide the best performance for home storage products. To optimize processing time, converters explore using higher MFR resins, but cracking and failures usually occur.

MILLIKEN SOLUTION

DeltaMax m100 Melt Flow Modifier allows converters to boost Melt Flow properties up to 5x without sacrificing impact strength. DeltaMax m100 Melt Flow Modifier also allows converters to decrease processing temperatures, increase cycle time and reduce CO₂ emissions.



RESULTS

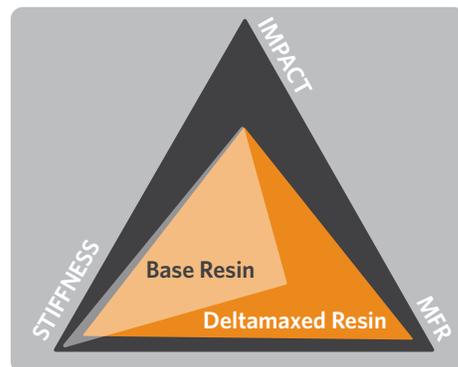
By increasing MFR from 35 to 80, the manufacturer produced 500 more parts per day. Reducing temperatures and back pressure lead to lower wear and tear on equipment, reduced energy use and faster cycle times. This allowed for increased profitability and added capacity for new customer projects.



**IMPROVED COST SAVINGS/
PROFIT IMPROVEMENT**

\$ \$190/T

**CYCLE TIME
REDUCTION 11%**



DECREASED MOLDING TEMPERATURE 6%
from 425°F to 400°F

7% reduction in CO₂ emissions

Please contact your Milliken representative for any additional information.

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 (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.

NORTH AMERICA
Spartanburg, SC, USA
Tel: 800-910-5592
Fax: 864-503-2430
millichem@milliken.com

EUROPE
Gent, Belgium
Tel: 32-9-265-1100
Fax: 32-9-265-1195
eurochem@milliken.com

LATIN AMERICA
Sao Paulo, Brazil
Tel: 55-11-3043-7942
Fax: 55-11-3043-7096
lachem@milliken.com

LATIN AMERICA
Mexico City, Mexico
Tel: 52-55-3088 3600
Fax: 52-55-9000 2643
lachem@milliken.com

ASIA
Singapore
Tel: 65-6377-0770
Fax: 65-6377-0990
asiachem@milliken.com

ASIA
Shanghai
Tel: 86-21 6145-5555
Fax: 86-21 6145-5558
asiachem@milliken.com

ASIA
Pune, India
Tel: 91.20.6730.7501
Fax: 91.20.6730.7514
asiachem@milliken.com