RUN TRIALS WITH

Millad® NX® 8000 ECO

Save energy & reduce your carbon footprint

Milliken™

Millad® NX® 8000 ECO delivers crystal clear clarity in polypropylene (PP), while extending sustainability benefits in the production of clarified PP parts, by offering faster production rates and average energy savings of 10% compared to conventional clarifiers.

Millad® NX® 8000 ECO allows converters to process PP at significantly lower temperatures up to 40°C less than traditional clarifiers – while yielding similar or even better optical properties. These cooler temperatures reduce energy demands and associated carbon dioxide (CO_2) emissions, enabling more sustainable solutions.

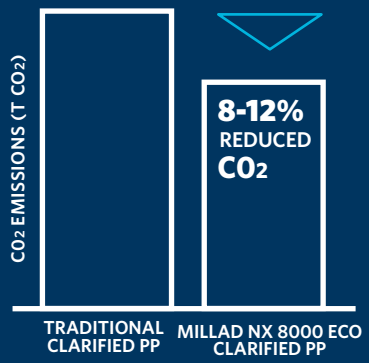
Brand owners using the Millad NX 8000 ECO clarified resin can display a UL Environmental Claim Validation (ECV) label on their injection molded packaging to illustrate their dedication to sustainability.

UL

VALIDATED

- MILLAD® NX® 8000 ECO ENABLES AN AVERAGE OF 10% ENERGY SAVINGS FOR PRODUCTION OF CLARIFIED PP PARTS
ULCOM/ECV

REDUCE YOUR CARBON FOOTPRINT



It's important to run your own trials, to measure the aesthetic results and actual energy savings realized in your own plant. Milliken is here to help you do just that remotely and efficiently.

Before the Trial

Share info on machine, part and settings.

During the Trial

Run the reference grade at current settings.

Run the Millad NX 8000 ECO resin at same settings.

Run the Millad NX 8000 ECO resin at lower temperature settings.

After the Trial

We send the report and share the savings.

Before the Trial

Milliken needs to understand how you run PP resins. Therefore, it's important to share information.
Please complete this table with the settings of the reference resin before the trial and share with the Milliken team.

Part Description	
Machine	Hydraulic/Electric/Hybrid
Reference resin	
Millad NX 8000 ECO resin	
Shot weight (g)	
Part weight (g)	

	Settings Reference Resin
IM Temperature[1] (°C)	
Cycle Time (sec)	
Injection Time[2] (sec)	
Charging Time[3] (sec)	
Cooling Time (sec)	

[1]Injection Moulding Temperature = Max. Peak Barrel Temperature
[2]Injection Time = Filling Time
[3]Charging Time = Plastification Time = Dosing Time

During the Trial

1. **Run the reference resin at standard settings.**
   Collect 5-10 samples from the same mold cavities in each batch, and label them for lab analysis.
2. **Thoroughly purge the resin from the injection molding machine.**
3. **Run the Millad NX 8000 ECO resin at standard settings.**
   Collect 5-10 samples from the same mold cavities in each batch, and label them for lab analysis.
4. **Next, optimize the processing temperature by reducing the barrel temperature in incremental steps until the molded part is no longer acceptable or the measured resin melt temperature does not continue to decrease.**
5. **Finally, optimize the cycle time, reducing the cooling time in increments until the molded part is no longer acceptable.**
   Collect 5-10 samples from the same mold cavities in each batch, and label them for lab analysis.
6. **Complete the settings of the Millad NX 8000 ECO resin.**

	Settings Millad NX 8000 ECO Resin
IM Temperature[1] (°C)	
Cycle Time (sec)	
Injection Time[2] (sec)	
Charging Time[3] (sec)	
Cooling Time (sec)	

[1]Injection Moulding Temperature = Max. Peak Barrel Temperature
[2]Injection Time = Filling Time
[3]Charging Time = Plastification Time = Dosing Time

After the Trial

1. Ship the collected and labeled samples to the Milliken facility.
2. The experts in Milliken's lab will conduct a part analysis.
3. The Milliken team will prepare a full trial report including energy consumption and cycle times for both resins, energy savings and cost savings realized, and the amount of CO_2 reduced.

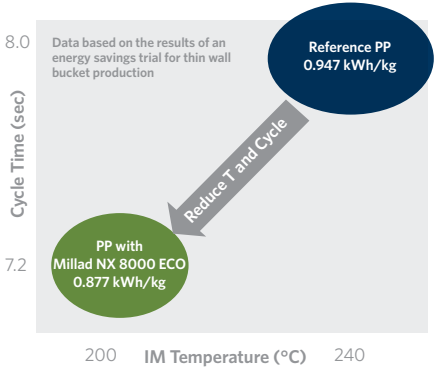
Example Trial Report

After running the trial at your plant, the Milliken team will prepare a full trial report including:

- Energy consumption for both resins
- Cycle time for both resins
- Energy savings
- CO_2 reduction
- Haze reduction
- Cost savings

MILLAD NX 8000

Calculate your energy savings using our web application : millad.milliken.com



Savings

7% CO_2 emissions

10% cycle time

€58 €/ton PP

It's that easy. Don't let today's current logistical challenges prevent you from realizing vital savings when molding your PP parts. Contact Milliken today, and let us get you on the path to saving money and energy with Millad NX 8000 ECO - clarified PP resin.

THE ULTRACLEAR WAY TO GO CIRCULAR

with Millad® NX® 8000 ECO

Milliken™

chemical.milliken.com

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: (20) 4011-0601
Fax: (20) 4011-0602
asiachem@milliken.com