

Milliken®
Millad® NX® 8000 ECO
Clarifying Agent for Polypropylene

CASE STUDY

**PRIORITIZING FOOD CONTACT-SAFE CLARITY:
PHILIPS Avent Baby Bottles**

For the PHILIPS Avent product line, the need for crystal-clear, yet durable, baby bottles was non-negotiable—clarity allowed parents to see exactly how much a baby was consuming. PHILIPS developed three baby bottle sizes that utilizing a copolymer polypropylene (PP) resin grade that is optical brightener-free and leveraged Milliken's [Millad® NX® 8000 ECO](#) clarifying agent.



THE CLEAR RESULTS

By using a resin clarified with Millad® NX® 8000 ECO, these three PHILIPS Avent bottles:

Offer a clear visual aesthetic

Using Millad® clarifiers allows PP to achieve glass-like clarity while retaining the durability and lightweight properties of the material.

Reduce energy consumption during production

Millad® NX® 8000 ECO increases the production rate of PP components, offering average energy savings of up to 10% during injection molding—a decrease verified by UL and eligible for its [Environmental Claims Validation label program](#).



Support peace of mind in food-contact applications

Important for food-contact materials, these PP bottles incorporating Millad® clarifying agents lowered the products' specific migration limits (SML) without adding any new ingredients to the formulation. The PP bottles also adhere to food-contact regulations for infant formula and human milk

Meet or exceed APR Critical Guidance

Millad®-clarified PP is highly compatible with existing recycling infrastructures, receiving Critical Guidance Recognition from the [Association of Plastic Recyclers \(APR\)](#) for meeting or exceeding Critical Guidance's most stringent requirements—indicating that the clarifier does not adversely affect the recyclability of the PP bottles at the end of their usable lives.



Contact us for more information
chemical.milliken.com/contactus

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