

# Laser marking masterbatches for durable, mono-material packaging

Permanent, high-contrast marking designed into the material



Laser marking masterbatches enable high-contrast, permanent marking on plastic packaging—without the need for inks, labels or secondary materials. Designed to support sustainable packaging goals while delivering reliable, high-quality results.

LYB *Polybatch* laser marking masterbatches integrate laser-marking additives and color pigments into a single solution, allowing manufacturers to streamline processing while achieving precise, high-contrast laser markings. This all-in-one solution supports premium packaging designs by delivering clean aesthetics, consistent color performance, permanent and ink-free marking without adding complexity to production.

## Supports recyclable & mono-material packaging

By eliminating inks, solvents, adhesives and labels, the solutions streamline packaging design and reduce unnecessary waste. The markings are embedded directly into the material, supporting mono-material structures and preserving recyclability without added processing steps.

### Main applications:

- **Food packaging** - batch codes, QR codes, traceability
- **Personal care & household** - branding, product information, premium aesthetics
- **Pharmaceutical packaging** - traceability, compliance marking
- **Packaging designed for recyclability & mono-material packaging**
- **Reusable or refillable packaging** – durable marking resistant to washing

### Performance advantages:

- Permanent, abrasion-resistant marking – does not smudge or fade
- High contrast on light and dark plastics – clean, label-free appearance
- Fine detail for date codes, batch numbers and QR codes
- Compatible with fiber, CO2, and Nd:YAG lasers

### Compatible polymers:

Custom solutions available for a range of polymers, including:

- PE (HDPE / LDPE)
- PP
- PET
- PS, ABS

## Why choose *Polybatch* laser marking masterbatches?

*Polybatch* laser marking solutions help packaging producers and brand owners meet sustainability goals, increase production efficiency, deliver clean and permanent marking—without compromising material performance or aesthetics.

## Discover how *Polybatch* laser marking masterbatches can enhance your packaging performance

Get in touch with your account manager or ADTS specialist to explore solutions tailored to your applications.

# About us

We are LyondellBasell (LYB) – a leader in the global chemical industry creating solutions for everyday sustainable living. Through advanced technology and focused investments, we are enabling a circular and low carbon economy. Across all we do, we aim to unlock value for our customers, investors and society. As one of the world's largest producers of polymers and a leader in polyolefin technologies, we develop, manufacture and market high-quality and innovative products for applications ranging from sustainable transportation and food safety to clean water and quality healthcare. For more information, please visit [www.lyb.com](http://www.lyb.com) or follow [@LyondellBasell](https://www.linkedin.com/company/lyondellbasell) on LinkedIn.

Before using a product sold by a company of the LyondellBasell family of companies ("LyondellBasell"), users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally. LyondellBasell MAKES NO WARRANTY, EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PUR-POSE) OTHER THAN AS AGREED TO BY LyondellBasell IN THE PRODUCT SALE CONTRACT.

LyondellBasell prohibits or restricts the use of its products in certain applications. For further information on restrictions or prohibitions of use, please contact a LyondellBasell representative.

Users should review the applicable Safety Data Sheet before handling the product.

*Polybatch* is a trademark owned by the LyondellBasell family of companies and is registered in the U.S. Patent and Trademark Office. More information about LyondellBasell can be found at [www.LyondellBasell.com](http://www.LyondellBasell.com).