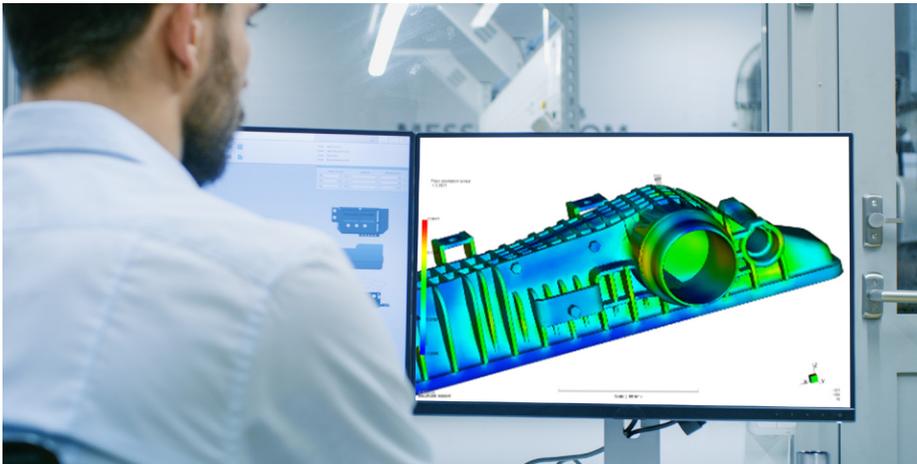


# In-house capabilities to support your projects with CAE



LyondellBasell (LYB) offers a wide range of Computer Aided Engineering (CAE) support to meet the diverse needs of your applications.

Highly skilled CAE simulation and testing experts work closely with our LYB colleagues from Technical Service, New Business Development, and Product Development to provide you with global support.

Our well-equipped material laboratories and external test partners generate the required material input data to feed all kinds of structural and injection molding simulations to assist you.

## Features

- Supporting the whole range of LYB thermoplastic material portfolio regarding CAE
- **PPC** – Polypropylene Compounds
- **EP** – Engineered Plastics
- **PO** – Polypropylene (PP)  
Polyethylene (PE)  
Polybutene -1 (PB-1)
- Recycling grades Mechanical Recycling (*CirculenRecover*); Chemical Recycling (*CirculenRevive*); made from renewable feedstocks (*CirculenRenew*)

## Key CAE support offerings

### Material Data

Wide range of CAE specific material test data available in our extensive database. If not, materials are tested in house or at our certified external test partners.

### Material Cards

Validated material cards for mold filling and structural simulations for various software solutions.

### Injection Mold Simulations

Mold filling and warpage simulation using *Moldflow*® and *CADMOULD*®

### Structural Simulations

Impact, creep, fatigue and other structural load case simulations with *Abaqus*® and *LS-DYNA*®. Integrative simulation approach by including fiber orientation results with *DIGIMAT*®.

### Direct Contact

You can reach out to us by E-Mail:

#### Americas:

CAE-MaterialDataRequest-Americas@lyondellbasell.com

#### Asia-Pacific:

CAE-MaterialDataRequest-AP@lyondellbasell.com

#### Europe:

CAE-MaterialDataRequest-EU@lyondellbasell.com

## Reasons to partner with us

### Key advantages

- **Customization:** CAE support that meets your specific needs
- **Standardization:** Standardized and optimized material testing in our internal and in certified external test laboratories
- **Expert technical support:** Enabling material change or substitution, identifying light weight solutions, solving material related part/tool issues, optimizing part/tool design
- **Global:** Globally supporting customers through local hubs by highly skilled CAE simulation and testing experts
- **Costs:** Free of charge for approved customers

No matter how you define success, LYB has the material simulation expertise, processing know-how, market knowledge and application experience to help you achieve the success you strive for.

We not only offer a rich, diverse portfolio of CAE material data and simulation support but also collaborate closely with our customers to understand their unique challenges and create a CAE simulation support that reinforces their product development process.

# 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.

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