

Lightweight @ LyondellBasell

New material solutions to reduce the weight of your application!

Weight reduction is one of the most important megatrends in the industry. Following this trend LyondellBasell is working on innovative solutions for their customers to reduce the weight of their applications. Due to our expertise in compounding, know how in special filler & reinforcement systems we have developed various material solutions to save weight.

How to save weight?



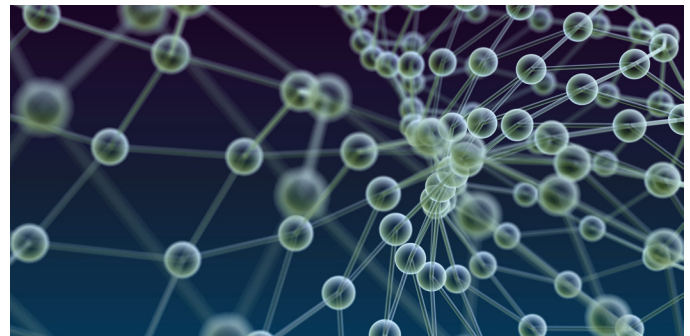
Metal replacement

With LyondellBasell's high performance polymer solutions it is possible to replace metal in various applications.

Ecotran: Heat resistant PPS compounds meet the highest requirements

Schulamid/Schuladur:

Glass fiber reinforced materials with high mechanical properties.



Polymer substitution

Polymer substitution is a method to achieve lower part weight.

- A weight reduction up to 20% can be achieved.

Due to the improved technical properties of LyondellBasell's compounds, for some applications high density materials can be substituted by compounds with lower density.

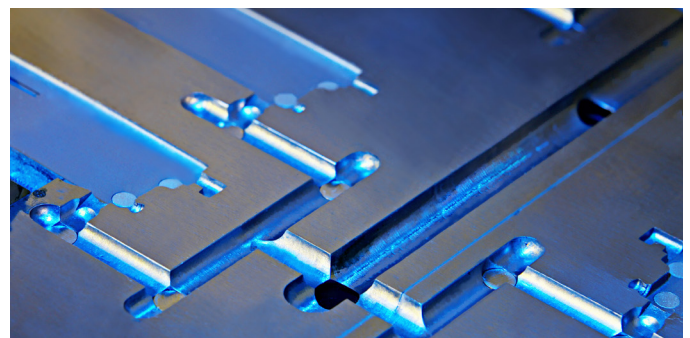


Density reduced compounds

The newly developed reduced density grades are predestined for ambitious, cost attractive lightweight applications.

The RD grades fulfill the existing specifications of many OEM's.

- Potential for weight reduction up to 12%.



Alternate processing technologies

By using alternate processing technologies a further weight reduction can be realized.

- GIT - Gas injection technology
- WIT - Water injection technology
- PIT - Projectile injection technology
- Foaming - Physical, Chemical

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 or follow [@LyondellBasell](https://www.linkedin.com/company/lyondellbasell) on LinkedIn.

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