

# Revolutionize automotive design with LYB translucent solutions



## Merging optical and mechanical properties while embracing sustainability

Under the brand names *Hifax* and *Hostacom*, LYB addresses these challenges through its translucent polypropylene compounds (PPC). These innovative solutions are designed to elevate personalization and create mesmerizing light effects in modern vehicles.

LYB translucent portfolio not only opens possibilities in visual design but also fulfills the stringent mechanical requirements of automotive components, featuring UV resistance, high rigidity, and other properties. These mono-material solutions deliver a lower carbon footprint compared to polycarbonate and can be designed for recyclability.

Automotive design is dynamic, and creating the next-level driving experience extends beyond functionality to include sensory appeal. Lighting effects, both exterior and interior, play an important role in enhancing aesthetic charm and creating a personalized ambiance.

Existing lighting solutions fall short in terms of sustainability due to challenges such as the need for UV/chemical protection and the inability to support mono-material solutions. LYB translucent solutions are engineered to make these limitations a thing of the past.

## Mechanical properties of *Hifax* and *Hostacom* translucent PPC

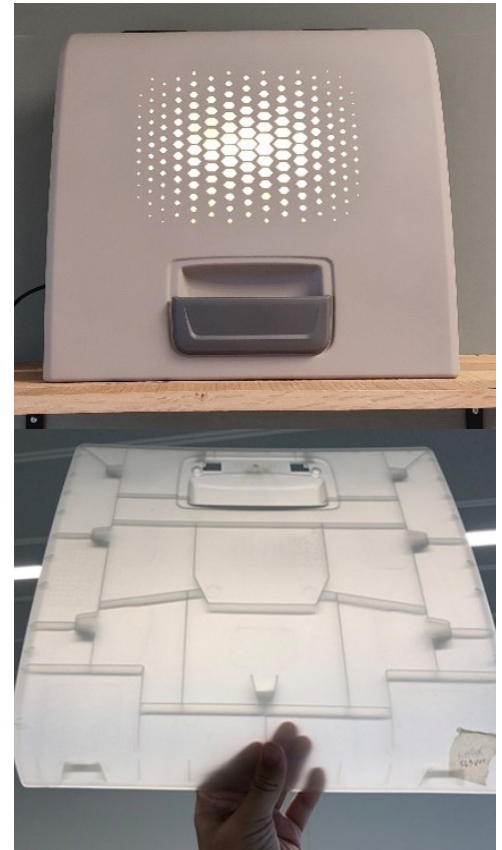
Product	Density (gr/cc)	MFR 230/2,16 (gr/10')	Flexural modulus at 23°C (MPa)	Charpy notched impact at 23°C (KJ/m²)	Charpy notched impact at 0°C (KJ/m²)	Multiaxial impact at 23°, type of break	Multiaxial impact at -10°, type of break	Light Transmission 3mm plate (%)	Haze 3mm plate (%)
<i>Hifax</i> TRS 2526X Unfilled	0,91	20	1100	30	3	ductile	ductile / fragile	75	65
<i>Hifax</i> TRG 2511X 5% Filled	0,94	16	1300	20	5	ductile	fragile	72	91
<i>Hifax</i> TRG 2659X 10% Filled	0,97	15	1550	20	6	ductile	ductile / fragile	70	97
<i>Hostacom</i> TRG 2509Y 15% Filled	1,00	12	2500	14	7	ductile	fragile	67	97
Method	ISO 1183	ISO 1133	ISO 178	ISO 178	ISO 179	ISO 6603-2	ISO 6603-2	ASTM D 1003	ASTM D 1003

Note: Typical properties, not to be considered as specifications

# Discover the benefits of LYB translucent solutions for your automotive projects:

- **Lightweight and durable:** Offers lower density than conventional translucent materials while maintaining essential properties such as rigidity and impact resistance.
- **UV resistant and low yellowing:** Minimizes yellowing to preserve visual aesthetics. It is optimized to pass typical UV tests without requiring additional coatings, helping to reduce costs.
- **Co-moldable with polypropylene (PP):** Easily co-molded with PP, streamlining assembly process and resulting in enhancing energy efficiency and reducing costs.
- **Designed for recyclability:** Mono-material solutions, enhancing recyclability potential and offering a lower carbon footprint compared to traditional multi-material alternatives.
- **Soft touch haptics:** Elevate cabin comfort and branding with soft touch solutions. These translucent materials also enable a ghost effect and laser marking, creating an immersive ambiance.

Take your automotive design to the next level with LYB translucent solutions. Contact us today to discover how our innovative materials can transform your projects and drive the future of automotive excellence.



## 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 on LinkedIn.

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