

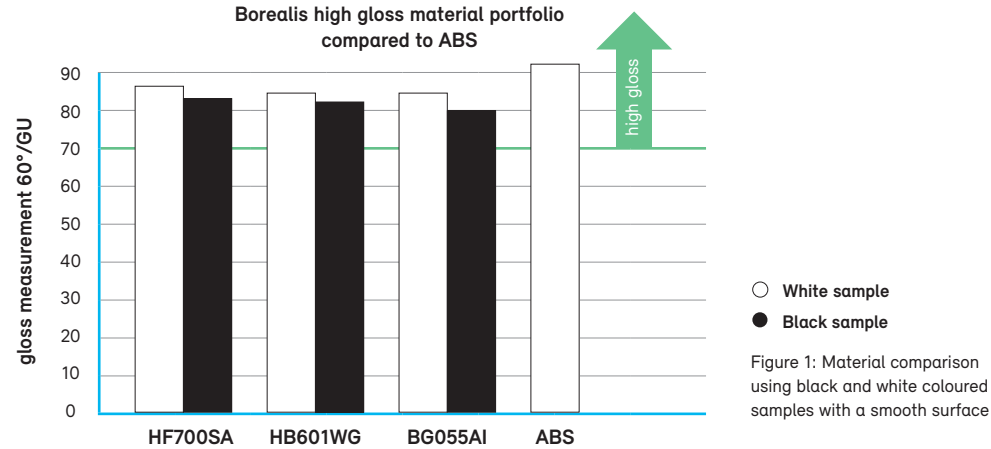
Brighten up your life

Polypropylene solutions for high gloss
appliances



Aesthetics follows function

The main influencing factor when buying white goods and small appliances is, next to the functionality, high aesthetic demands. Borealis material solutions, with all-in-one functionality and a pleasing, high gloss aesthetic, can contribute to your success. Be faster and more efficient, by using lower energy and resources than many alternative solutions and choose a Borealis material that enables innovation by increasing design freedom, optimising processes, enhancing end-use performance and offering good aesthetics.



Understanding gloss requirements

What is gloss?

Gloss is one parameter used to characterise the visual appearance of a surface. It indicates the extent to which a surface reflects light in a specular, or mirror-like, fashion. Gloss is affected by the refractive index of the material, the angle of incident light, and the surface topography of the sample.

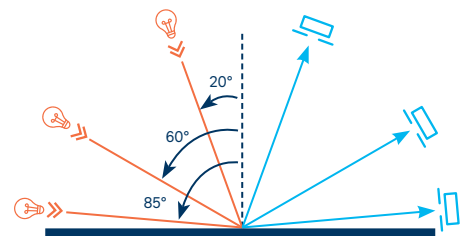


Figure 2: Varying angles used for measuring gloss

Gloss measurement

So-called gloss metres are used as part of quality management to measure gloss. A gloss metre emits a known amount of light at a specific angle and quantifies the detected reflection from the surface of the sample. The angle used depends on the surface of the sample to be measured, as shown in Figure 2.

Gloss Range with 60° Gloss Meter	Area	Measure with:
low gloss	<10 GU	85°
semi gloss	10-70 GU	60°
high gloss	10-70 GU	20°

Figure 3: Gloss range with 60° gloss meter

HB601WG

- Polypropylene homopolymer for injection moulding
- Excellent detergent resistance
- Long term thermal stability
- Perfect for visible parts due to excellent surface properties

Typical applications include:

- Dishwasher cutlery trays and baskets
- Applications requiring high detergent and/or heat resistance



HF700SA

- Polypropylene homopolymer for injection moulding
- Good flowability
- High heat stabilised
- Antistatic performance
- Ideal for visible parts where high gloss is essential

Typical applications include:

- Water kettles
- Coffee machines
- Vacuum cleaners and other household appliances

BG055AI

- Polypropylene microcomposite for injection moulding
- Excellent balance between impact strength and stiffness
- Good flowability
- Ideal for appliances needing high aesthetical requirements like high gloss and scratch resistance

Typical applications include:

- Various covers and housing for small appliances and white goods
- Applications with high aesthetic requirements



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About Borealis Borealis is one of the world's leading providers of advanced and circular polyolefin solutions and a European market leader in base chemicals, fertilizers and the mechanical recycling of plastics. We leverage our polymers expertise and decades of experience to offer value adding, innovative and circular material solutions for key industries. In re-inventing for more sustainable living, we build on our commitment to safety, our people and excellence as we accelerate the transformation to a circular economy and expand our geographical footprint.

With head offices in Vienna, Austria, Borealis employs 6,900 employees and operates in over 120 countries. In 2021, Borealis generated total sales and other income of EUR 10,153 million and a net profit of EUR 1,396 million. OMV, the Austria-based international oil and gas company, owns 75% of Borealis, while the remaining 25% is owned by a holding company of the Abu-Dhabi based Mubadala. We supply services and products to customers around the globe through Borealis and two important joint ventures: Borouge (with the Abu Dhabi National Oil Company, or ADNOC, based in UAE); and Baystar™ (with TotalEnergies, based in the US).

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