

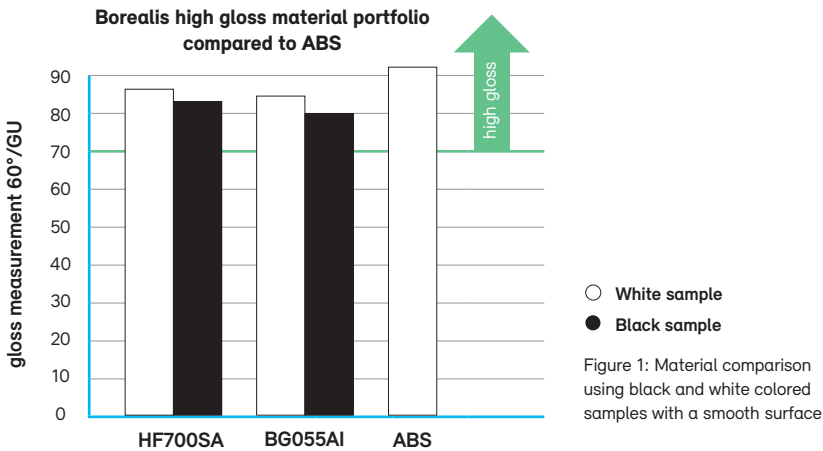
# Brighten Up Your Life

Polypropylene solutions for aesthetic applications



Aesthetics Follow Function

The main influencing factor when buying white goods and small appliances is, next to the functionality, high aesthetical 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, optimizing processes, enhancing end-use performance and offering good aesthetics.



Understanding Gloss Requirements

What is gloss?

Gloss is one parameter used to characterize 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.

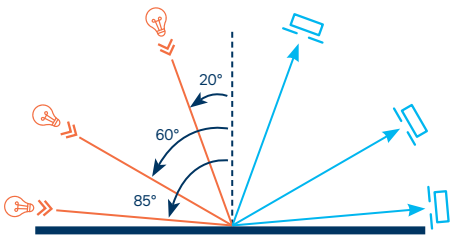


Figure 2: Varying angles used for measuring gloss

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

#### HF700SA

- Polypropylene homopolymer for injection molding
- Good flowability
- High heat stabilized
- 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 molding
- 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



#### HF955MO

- PP-H for injection molding
- Superior stiffness
- High chemical resistance
- Standard stabilization
- Nucleated
- 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 sustainable polyolefin solutions. In Europe, Borealis is also an innovative leader in polyolefins recycling and a major producer of base chemicals. We leverage our polymer expertise and decades of experience to offer value-adding, innovative and circular material solutions for key industries such as consumer products, energy, healthcare, infrastructure and mobility.

With customers in over 120 countries and head office in Vienna, Austria, Borealis employs around 6,200 people. In 2024, we generated a net profit of EUR 566 million. OMV, the sustainable chemicals, fuels and energy company with a focus on circular economy solutions, headquartered in Vienna, Austria, owns 75% of our shares. The Abu Dhabi National Oil Company (ADNOC), based in the United Arab Emirates (UAE), owns the remaining 25%.

In re-inventing essentials for sustainable living, we build on our commitment to safety, our people, innovation and technology, and performance excellence. We are accelerating the transformation to a circular economy of polyolefins and expanding our geographical footprint to better serve our customers around the globe. Our operations are augmented by two important joint ventures: Borouge (with ADNOC, headquartered in the UAE); and Baystar™ (with TotalEnergies, based in the US).

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