

Materials and Construction

GLAKS is extruded PMMA (high-strength acrylic) mixed with glass powder. It is perfectly flat, shatterproof, and visually identical to glass, surpassing it in terms of flexibility and cost. GLAKS is, in many respects, an exclusive product – an organic glass with a glossy or matte surface resistant to fingerprints, offering excellent UV resistance and serving as a modern alternative to silica glass. It is non-toxic, environmentally friendly, and highly resistant to heat, water, and stains.

Technical Features of GLAKS

Thanks to its special surface treatment, GLAKS is resistant to scratches, impacts, abrasion, chemicals, and heat, making it suitable for a wide range of applications. It has undergone numerous laboratory tests that confirmed its key properties:

- Impact resistance.
- Scratch and wear resistance.
- Color stability.
- Easy cleaning.
- Heat resistance (up to 90°C).
- Hygiene.
- Suitability for food contact.

Additionally, GLAKS is resistant to bacteria, making it particularly suitable for use in public spaces or areas where hygiene is critical, such as kitchens, bedrooms, bathrooms, shops, laboratories, operating rooms, and more.

Technical Specifications

- Core material: MDF 16 mm (gloss) / 14 mm (matte).
- Front side: GLAKS, thickness 2 mm (gloss) / 3 mm (matte).
- Rear side: PMMA, thickness 2 mm (gloss) / 3 mm (matte).
- Total material thickness: 20 mm (gloss and matte).
- Both front and rear sides are covered with protective film.

Tolerances

Dimensional tolerances compared to values specified in documentation may be ± 1 mm. Due to material stress, warping of the product can occur – permissible tolerance is ± 4 mm per 1 m.

Dimensions

- Minimum size: 100 mm x 100 mm.
- Maximum size:
 - 3,000 mm x 1,250 mm (edged product).
 - 3,050 mm x 1,300 mm (unformatted board).

Applications and Instructions

- Suitable for front surfaces of furniture in residential and commercial interiors (furniture doors, cladding materials, built-in wardrobes).
- Can be processed by cutting, drilling, and milling, e.g., for recessed handles.
- Easily cleaned.
- Suitable for food contact (does not transmit pathogens).

Warning: Supplied products are not suitable for outdoor use.