



灰玻：实现显示屏一体黑的应用

Gray glass: an application that enables a seamless all-black display appearance.

在透明无色玻璃原料中引入无机金属氧化物着色剂，使原先无色透明的玻璃转变为深灰色的低透光率玻璃体，透过率18%~38%，简称灰玻。可帮助显示屏实现整屏“一体黑效果”。即显示屏亮屏时清晰可见，熄屏时屏幕与玻璃融为一体，没有色差。

By introducing inorganic metal oxide colorants into transparent, colorless glass raw materials, the originally clear glass is transformed into a dark gray, low-transmittance glass body with a light transmittance of 18%–38%, commonly referred to as gray glass. Gray glass helps displays achieve a full-screen “integrated black” effect: when the display is on, the screen remains clearly visible; when the display is off, the screen blends seamlessly with the glass, with no visible color difference.

大小、形状可根据客户产品图纸定制加工。 最大尺寸：32寸

Size and shape can be custom processed according to the customer's product drawings. Maximum size: 32 inches

Optional specifications 可选规格

规格 Specifications	厚度 Thickness(mm)	透过率 Transmittance 550nm
	2.1±0.2	41.5%±3
3.0±0.2	65%±3	
3.2±0.2	28%±3	
4.0±0.2	25%±5	

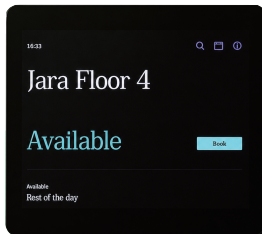
Surface treatment 表面处理

类别 Category	规格 Specifications
蚀刻AG Etched AG	可定制光泽度35~110。 Customizable gloss level: 35–110.
AF防指纹 AF Anti-Fingerprint	1.水滴角 Water Contact Angle > 110° 2.耐摩擦能力：用500g砝码，0000#钢丝绒，摩擦2000次后（一个来回记为1次），衰退值在15%以内。 Abrasion resistance: After rubbing 2,000 cycles with a 500 g weight and #0000 steel wool, with one back-and-forth motion counted as one cycle, the degradation value remains within 15%.

Applications and solutions 应用与方案

一体黑广泛应用于智能家居、智能穿戴、医疗设备、工控HMI等显示屏幕上,呈现产品的高端与美感。

Integrated black glass is widely used in display screens for smart home devices, smart wearables, medical equipment, industrial HMI systems, and more, enhancing the premium look and aesthetic appeal of the product.



VA区与BM区融为一体

The VA area and BM area blend seamlessly into one

方案 Solution	效果 Effect	成本 Cost	良率 Yield Rate	制作周期 Production Cycle
镀膜 Coating	较好 Relatively good	高 High	低 Low	长 Long
贴膜 Film Lamination	较好 Relatively good	高 High	低 Low	长 Long
印刷 Printing	仅适用20*20mm小面积 Only suitable for small areas of 20 × 20 mm	高 High	低 Low	短 Short
灰玻 Gray Glass	可实现32寸大面积 Supports large areas up to 32 inches	低 Low	高 High	短 Short



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显示模组网站
Module Website

深圳市夠力拉防眩光玻璃技术有限公司
Gelivable Glass (ShenZhen) Co. Ltd

东莞夠力拉科技有限公司
Gelivable (Dongguan) Co.,Ltd

中文

电话: 0769-8219 8850
手机: +86 134 2898 1303
邮箱: cao@gelivableglass.com

English

TEL: +65-9681 2449
E-mail: raymond.chew@kanouprecision.com