

SCHOTT Superwhite B 270[®] - Ultra Clear Crown Glass

Glass Fabrication



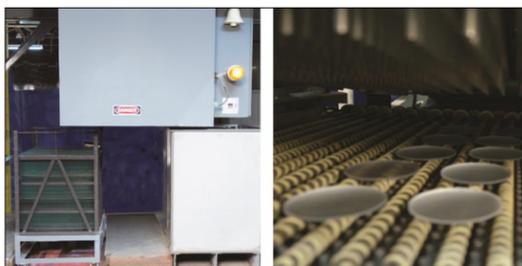
Coating Deposition



CNC Machining



Strengthening - Chemical & Heat



Screen Printing of Graphics



Abrisa Technologies, a member of HEF Photonics, is a globally recognized technology glass fabrication and optical thin film coating company with expertise in high volume manufacturing and engineering capabilities, delivering Total Solutions that provide excellent performance, fitness-for-use and economies of scale.

Our US based, state-of-the-art ISO 9001:2015 and ITAR registered facilities include Abrisa Industrial Glass in Santa Paula, CA and ZC&R Coatings for Optics in Torrance CA. These two divisions produce solutions from cut-to-order coated glass components to custom complex and ready-to-install fabricated, strengthened, optically coated, electronically enabled and branded sub-assemblies.

Our Total Solutions serve a variety of markets including Micro-Electronics, Defense and Avionics, Display, Industrial Automation, Optical Sensors, Imaging, Photonics, Medical & Dental, Life Science and more.



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Your Total Solution Partner

SCHOTT Superwhite B 270[®] - Ultra Clear Crown Glass

SCHOTT offers B 270[®] crown glass in sheet glass form to meet a wide variety of different market demands, especially suitable for Biotech applications. It is manufactured using a special up-draw process developed by SCHOTT.

B 270[®] i is highly resistant to solar radiation and offers high transmittance in the visible wavelength range. It also has a fire-polished surface and offers high chemical stability.

Features:

- High Transmission
- Excellent Surface Quality
- Can be Thermally or Chemically Strengthened

Applications:

- Large Area LCD Covers
- Cover Panes for Copying Machines
- Front Covers for Oscillograph Tubes
- Optical Elements for Light Sensors
- Signal Optics

Dimensions:

- Thicknesses: 0.9mm - 10 mm (0.0354 - 0.393")
- Sheet Sizes: Up to 66" x 28" (1676.4 x 711.2 mm)

Thermal Expansion:

- 0 - 300°C (32 - 572°F): $3.25 \times 10^{-6}/K$

Electrical Properties:

Log 10 Volume Resistivity

- (250°C, 482°F): $1 \times 10^9 \text{ ohm} \cdot \text{cm}$
- (350°C, 662°F): $1.6 \times 10^7 \text{ ohm} \cdot \text{cm}$

Mechanical Properties:

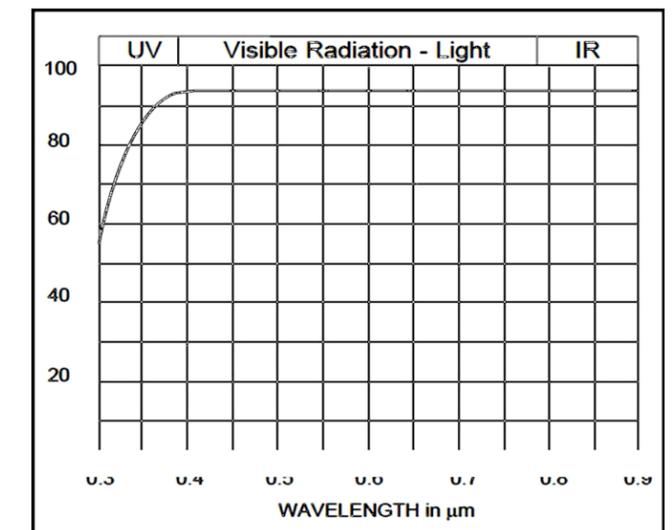
Density (25°C) ρ	2.55g/cm ³	159.2lb/ft ³
Young's Modulus E	71.5 kN/	10.4 Mpsi
Poisson's Ratio μ	0.219	0.219
Knoop Hardness	542	542
Bending strength σ	29.3MPa	4.2 Mpsi

Optical Properties: (Index of Refraction @)

546nm	1.5252
588nm	1.5231

Viscosity:

Softening Point (10 ^{7.6} poises)	724°C	1335°F
Annealing Point (10 ¹³ poises)	541°C	1006°F
Strain Point (10 ^{14.5} poises)	511°C	991°F



* Crown glass is a type of optical glass used in lenses and other optical components. It has relatively low refractive index (≈ 1.52) and low dispersion (with Abbe numbers around 60). Crown glass is produced from alkali-lime (RCH) silicates containing approximately 10% potassium oxide and is one of the earliest low dispersion glasses.

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