

SCHOTT Supermax® - Rolled Borosilicate

Glass Fabrication



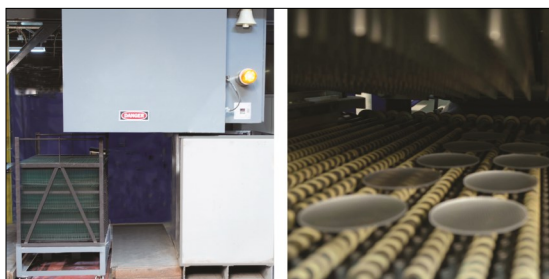
Coating Deposition



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.



Abrisa Industrial Glass
200 South Hallock Drive
Santa Paula, CA 93060

ZC&R Coatings for Optics
1401 Abalone Avenue
Torrance, CA 90501

(877) 622-7472

www.abrisatechnologies.com
info@abrisatechnologies.com

SS 10/_22



Your Total Solution Partner

SCHOTT Supermax® - Rolled Borosilicate

SCHOTT Supremax® Rolled Borosilicate is almost identical in its properties to Borofloat® 33, it has slightly lower surface quality due to the rolled process. It is a versatile borosilicate glass with excellent thermal properties, chemical resistance, and good light transmission material for its thickness. Supremax® Rolled Borosilicate also maintains a low density and therefore higher transmissivity compared to that of soda lime glass.

Features:

- Large Thickness Range
- Very Good Optical Properties
- Low Thermal Expansion
- High Chemical Durability
- Low Density

Applications:

- High temperature Windows for Lighting
- Optical Windows, Filters & Mirrors
- Chemically Resistant View Ports
- Bulletproof Glass Systems

Dimensions:

- Thicknesses: 28.6mm - 66.7mm (1 1/8" - 2 5/8")
- Sheet Sizes: Up to 90" 67"

Thermal Expansion:

- 0 - 300°C (32 - 572°F): 3.25 x 10⁻⁶/K

Electrical Properties:

Log 10 Volume Resistivity

- (250°C, 482°F): 8.0
- (350°C, 932°F): 6.5

Mechanical Properties:

Density (25°C) ρ	2.2 g/cm ³	137.3 lb/ft ³
Young's Modulus E	64 kN/mm ²	9.28 Mpsi
Poisson's Ratio μ	0.2	0.2
Knoop Hardness	480	480
Bending strength σ	24MPa	3.63 x 10 ³ psi

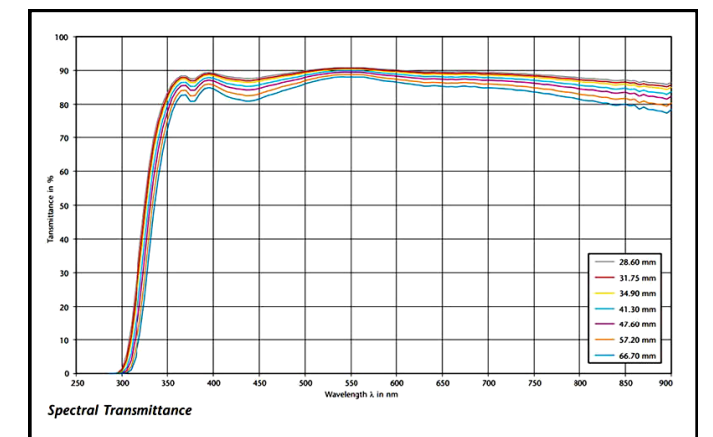
Optical Properties: (Index of Refraction @)

453.8 nm	1.4802
479.9nm	1.4768
546.1nm	1.4731
589.3nm	1.4713
643.8nm	1.4695
656.3nm	1.4692

Viscosity:

Working Point (10 ⁴ poises)	1270°C	2318°F
Softening Point (10 ^{7.6} poises)	820°C	1508°F
Annealing Point (10 ¹³ poises)	560°C	1040°F
Strain Point (10 ^{14.5} poises)	518°C	964°F

SCHOTT Supermax Spectral Transmittance



Abrisa Technologies • 200 South Hallock Drive, Santa Paula, CA 93060 • (877) 622-7472
www.abrisatechnologies.com • info@abrisatechnologies.com