

Product Specification

SCHOTT

Nexterion® Glass B cleanroom cleaned (US)

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|----------|---------------|
| Dok-Nr.: | PS-HBM-M-0008 |
| Version: | 2 |
| Page: | 1/2 |
| Date: | 23.04.2009 |

| | |
|---------------|--------------------|
| Product Type: | Nexterion® Glass B |
| Cleaning: | Cleanroom cleaned |
| Item Number: | 1025087 |

1.1 Description

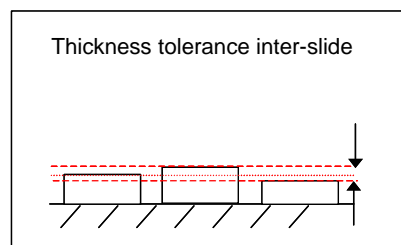
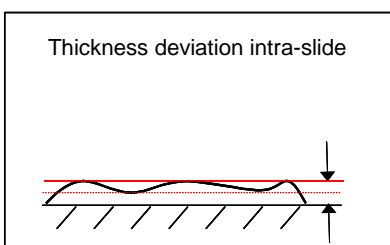
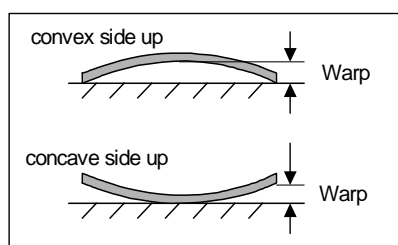
Nexterion® Glass B is a "microscope slide" sized piece of laser cut borosilicate glass. This glass is manufactured from high purity ingredients using the microfloat process to produce extremely flat sheets. The borosilicate glass exhibits a high chemical resistance, as well as extremely low background fluorescence in the Cy3™ and Cy5™ emission wavelengths of 570 nm and 670 nm respectively. The slides are ultrasonically cleaned under alkaline conditions, after which each slide is checked for conformity. The approved slides are packed into plastic boxes under class 100 cleanroom conditions, and sealed in protective foil pouches containing an inert atmosphere.

1.2 Physical Specifications

Nexterion® Glass B is provided with laser cut edges.

| Item | Specification |
|----------------|------------------------------------|
| Thickness [mm] | 1.00 mm ± 0.050 mm |
| Length [mm] | 75.60 mm ± 0.10 mm |
| Width [mm] | 25.0 mm ± 0.10 mm |
| Flatness* [mm] | ≤ 0.050 mm |
| Roughness | typical values below 1 nm (RMS) |
| Transmittance | in the visible light range: > 90 % |

*Flatness = summary effect of thickness deviation (intra-slide) and warp (concave, convex).



| | generated by | reviewed by | reviewed by | reviewed by | authorized by |
|------|-----------------|------------------|-------------------|-------------|-----------------------|
| Name | Ulrike Faessler | Susann Schneider | Stephanie Walther | | Christian Jabschinsky |
| Date | | 23.04.2009 | 23.04.2009 | | 23.04.2009 |

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1.3 Surface Specification

| Item | Specification | Admissible count |
|---|--|------------------|
| Cleanliness | < 25 surface defects ($\geq 20 \mu\text{m}$) visual inspection under oblique illumination | |
| Elongated defects (e.g. scratches) | Width $\leq 50 \mu\text{m}$; Length $\leq 2 \text{ mm}$ | Ignore |
| | Width $> 50 \mu\text{m}$; Length $> 2 \text{ mm}$ | None |
| Spot type defects (e.g. open bubbles, digs, chips, dross, drip, tos, bos) | $< 100 \mu\text{m}$ | Ignore |
| | $> 100 \mu\text{m}$ | None |
| Edge chips | Length $\leq 100 \mu\text{m}$; Width $\leq 100 \mu\text{m}$ | Ignore |
| | Length $> 100 \mu\text{m}$; Width $> 100 \mu\text{m}$ | None |
| Crack | Visible | None |

1.4 Contamination

| Item | Specification | Admissible count |
|---------------|---|------------------|
| Finger prints | | None |
| | $< 20 \mu\text{m}$ | Ignore |
| Particles | $20 \mu\text{m} \leq x \leq 50 \mu\text{m}$ | 10 |
| | $> 50 \mu\text{m}$ | None |

In rare cases, abrasion particles from the box material may appear on the slide caused by the transportation process. These particles can be removed by carefully applying a clean stream of nitrogen.

For technical assistance please contact:

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