

TELIC

E Beam Photomask Blanks

Substrates

- Soda Lime
- Borosilicate (Eagle, D263, AF32, Borofloat)
- White Crown (B-270, BK-7)
- Quartz (Synthetic Fused Silica)

Applications

- Reticles, Master Grade

SUBSTRATE SPECIFICATIONS

SIZES: Thickness Squares 2" through 7"

THICKNESS: 0.010" - 0.220" (0.50mm - 6mm) non standard thickness is available upon request

SURFACE: All plates are polished on both sides and inspected to be free of glass defects > 2 microns

FLATNESS: ≤15 microns

FILM SPECIFICATIONS

CHROME: Vacuum Deposited, DC Sputtered in Class 100 Environment

THICKNESS/OPTICAL DENSITY: Standard: $1100\text{\AA} \pm 10\%$ / O.D. = 2.8 ± 0.2 @ 530nm. Custom thicknesses up to 5 microns

REFLECTIVITY:

Low Reflective - LRC	<8% @ 450nm
Mid Reflective - MRC	<33% @ 450nm
High Reflective - HRC	<48% @ 450nm
Blue - R632	<5% @ 632nm
Blue/Chrome/Blue - R632/632	<5% @ 632nm Both Sides
Green - R850	<5% @ 850nm
Green/Chrome/Green - R850/850	<5% @ 850nm Both Sides

PROCESS:

- Etchable in all conventional Wet Etch systems
- Plasma Grade recommended for Dry Etch systems

PHOTORESIST:

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