

Photomask Blank Plates Large Format

PARAMETER	SPECIFICATION	
MATERIALS AVAILABLE:	GLASS/SODA LIME (OTHER MATERIALS AVAILABLE UPON REQUEST)	
DIMENSIONS:	PHOTOMASK BLANKS ARE AVAILABLE IN ANY DIMENSIONS WITH A WIDE RANGE OF EXISTING TOOLING READILY AVAILABLE. (SOME CUSTOM SIZES MAY REQUIRE AN ADDITIONAL NON-RECURRING TOOLING CHARGE.) MAXIMUM SIZE: SQUARE – 16" X 16", RECTANGLE – 14" X 18"	
THICKNESS (STANDARD):	0.060", 0.090" AND 0.120" (OTHER THICKNESSES AVAILABLE UPON REQUEST)	
DIMENSIONAL TOLERANCES:	PLATE LENGTH	+0.000/-0.040"
	PLATE WIDTH	+0.000/-0.040"
	PLATE THICKNESS	±0.004"
FLATNESS:	≤10μm/100mmx100mm	
BOW:	≤0.2mm	
METALIZED COATING:	LOW, MEDIUM OR HIGH REFLECTIVE CHROME	
OPTICAL DENSITY:	≥5.0 AT BLUE FILTER ON MACBETH 101	
REFLECTIVITY:	LOW REFLECTIVITY	<12±2% AT 450nm
	MEDIUM REFLECTIVITY	33±3% AT 450nm
	HIGH REFLECTIVITY	60±3% AT 450nm
PHOTORESIST COATING:	AZTFP-650 STANDARD, AZ1518 AVAILABLE	
PHOTORESIST THICKNESS:	10,000±100Å STANDARD	
USABLE AREA:	10mm SMALLER THAN PLATE SIZE	
DEFECT SPECIFICATIONS:	GLASS (PITS, SCRATCHES & INCLUSIONS)	≤20μ
	CHROME COATING (PINHOLES & SCRATCHES)	≤20μ & ≤0.05" ²
	RESIST COATING (PINHOLES, SCRATCHES & VOIDS)	≤10μ
PACKAGING:	UNITS ARE SHIPPED IN Nanofilm DESIGNED, 5-PIECE POLYSTYRENE SHIPPING BOXES WITH V-GROVE SLOTS AND LOCKING COVERS	