



Specification Data Sheet

# Photomask Blank Pates - Large Format

Parameter	Specification	
<b>Materials Available</b>	Glass/Soda Lime (Other materials available upon request)	
<b>Dimensions:</b>	Photomask Blanks are available in any dimension with a wide range of existing tooling readily available. ( Some custom sizes may require an additional non-recurring tooling charge) Maximum size square-16"x16", Rectangle-14"x18"	
<b>Thickness (Standard):</b>	0.060", 0.090", & 0.120" Other thicknesses available upon request	
<b>Dimensional Tolerances:</b>	Plate length	+0.000/-0.40"
	Plate width	+0.000/-0.40"
	Plate thickness	±0.004"
<b>Flatness:</b>	≤10µm/100mmx100mm	
<b>Bow:</b>	≤0.2mm	
<b>Metalized Coating:</b>	Low, medium, or high reflective chrome	
<b>Optical Density:</b>	≥5.0 @ blue filter on Macbeth 101	
<b>Reflectivity:</b>	Low reflectivity	<12±2% @ 450nm
	Medium reflectivity	33±3% @ 450nm
	High reflectivity	60±3% @ 450nm
<b>Photoresist Coating:</b>	AZTFP-650 Standard, AZ1518 available	
<b>Photoresist Thickness:</b>	10,000±100Å standard	
<b>Usable Area:</b>	10mm smaller than plate size	
<b>Defect Specifications:</b>	Glass (pits, scratches & inclusions)	≤20µ
	Chrome coating (pinholes & scratches)	≤20µ & ≤0.05" <sup>2</sup>
	Resist coating (pinholes, scratches & voids)	≤10µ
<b>Packaging:</b>	Units are shipped in Nanofilm designed, 5-piece polystyrene shipping boxes with V-groove slots and locking covers	