

Fused Silica Plates Square / Round

Quartz Glass highly excels in light transmittance in ultraviolet region. Can be specified in 1mm increments.



Standard Type

Part Number					1mm Increment		Comparison of Glass and Acrylic Mirror Features					
Туре			Т	Α	В		Weight	Scratch Resistance	Break	Heat Resistance	Chemical Resistan	
	No Adhesive	With Adhesive	(Glass Mirror)	_	10~300	10~300	Glass Mirror	Heavy (Specific Gravity 2.5)	0	Frangible	80°C	0
	MRA	MRAA	(Acrylic Mirror)	3			Acrylic Mirror	Light (Specific Gravity 1.2)	х	Irrefrangible	50°C	X (Organic solvents resistan

Pre-drilled Type

	Dord	Number				1 mm In	Select Mounting Holes			
	Fan	Number								
Туре					A	В	F	G	N (Through Hole)	P (Countersink)
No Adhesive	With Adhesive	(Glass Mirror)	2H 4H	3	10~300	10~300	9~241	9~241	5	3
MRA	MRAA	(Acrylic Mirror)								





Part		А	Unit Price						
Numb	er	1mm	B 1mm Increment						
Туре	Т	Increment	20~100	101~150	151~200	201~250	251~300		
	1	20~50	5,278		-	-			
		51~100	9,401	-			-		
		101~150	13,587	19,656					
	2	20~100	9,401	-					
		101~150	13,587	19,656	-	-			
		151~200	17,773	25,722	33,670		-		
FGLKS		201~250	21,658	31,787	35,490	39,413			
		251~300	26,086	35,490	37,993	46,865	55,738		
	3	20~100	9,401	-					
		101~150	13,587	19,656	-	-			
		151~200	17,773	25,722	33,670		-		
		201~250	21,658	31,787	35,490	39,413			
		251~300	26,086	35,490	37,993	46,865	55,738		



Optical Transparency of Quartz Glass Features of Quartz Glass

ÐX Transparent quartz glass highly excels in light transmittance at all Example wavelengths as compared to other general glasses (silicate glasses)

In the infrared region, it has better transmission and transparency range than normal glasses except for special glasses for the infrared.

In ultraviolet region, especially short wavelength ultraviolet region, it shows excellent transparency.

- Features of Oxy-hydrogen Fused Transparent Quartz Glass Quartz glasses made by melting crystals with Oxyhydrogen flame It has high purity and little air bubbles. Best suited as the material for tools for semiconductor manufacturing and physicochemical equipments.

Visible - Infrared Spectrum

Wavelength/nm

400

Ultraviolet - Visible Spectrum

200



Purity (%)	≥99.9
OH (ppm)	200
Density (gcm ³)	2.2
Vickers Hardness (Mpa)	8900
Young's Modulus (Gpa)	74
Rigidity Modulus (Gpa)	31
Poisson ratio	0.17
Bending Strength (Mpa)	94.3
Compression Strength (Mpa)	1130
Tensile Strength (Mpa)	49
Torsion Strength (Mpa)	29

Mechanical characteristics of Quartz Glass

00 - FGLKS

As a cover for the UV irradiation device

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 Precaution for Use
Make sure that plates are clean before use. Transparent quartz glasses have to be kept away from water and

impurities Do not place them in high-temperature atmosphere if they are wet. When using in high temperature, dry them well before use. Note that the glasses may be devitrified depending on the operating

atmosphere More resistant to quick heating and cooling and 10 times stronger than

normal glasses. However, not resistant to extreme temperature changes. Has low thermal conductivity and may have cracks due to local, quick heating or cooling. The heat and impact resistance becomes lower as glasses get thicker.

If temperature increases (decreases) with other objects attached to the guartz glasses, they may break due to thermal expansion differentials. Be careful when increasing (decreasing) temperature with other objects attached

If guartz glasses are used at high temperature for a long period of time, they may be deformed little by little due to their own weight or other loads Their life span may become longer if support methods or conditions of use are designed specific to the application.