



# TOQUARTZ

## Tech Specifications

# Quartz Plate & Disc

Integrated Engineering & Agile Production  
**for Demanded Specifications**

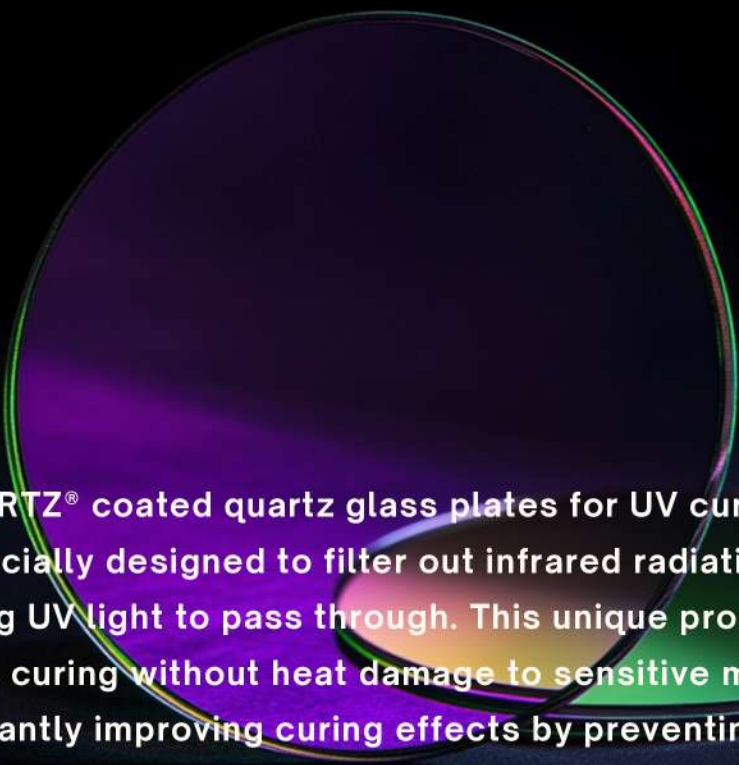


# TOQUARTZ®

## COATED QUARTZ GLASS PLATES

For UV Curing Equipment

### Product Overview



TOQUARTZ® coated quartz glass plates for UV curing equipment are specially designed to filter out infrared radiation while allowing UV light to pass through. This unique property enables optimal curing without heat damage to sensitive materials, significantly improving curing effects by preventing product deformation and discoloration.

# COATED QUARTZ GLASS PLATES

## Key Features

- **Optical Performance:** Blocks IR radiation while allowing >80% UV transmission
- **Temperature Resistance:** Long-term use at 1100°C, short-term up to 1450°C
- **Chemical Resistance:** Resistant to most acids and chemicals (except HF)
- **Applications:** Vehicle paint curing, PCB conformal coating, ink printing

# COATED QUARTZ GLASS PLATES

## Applications



- **Prevents Material Deformation:** Blocks heat while allowing UV to pass through
- **Preserves Color Integrity:** Prevents discoloration during curing process
- **Enhanced Curing Efficiency:** Optimizes UV energy utilization
- **Extended Service Life:** Durable in continuous high-intensity UV exposure





# MATERIAL GRADE SELECTION



**JGS-1 Far UV Grade**

High-OH content (2000 PPM) with excellent UV transmission, especially at 185nm (90% transmission)



**JGS-2 UV Grade**

Medium-OH content (100-200 PPM) suitable for applications above 220nm



**JGS-3 IR Grade**

Low-OH content with superior IR transmission (>85%) for applications requiring IR management

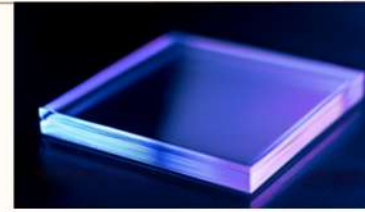
## CUSTOMIZATION OPTIONS

- **Custom Dimensions:** Round plates (diameter x thickness), Square/rectangular plates (length x width x thickness)
- **Edge Treatment:** R-corners, C-corners, protective corners, or straight edges
- **Material Grade:** JGS-1, JGS-2, or JGS-3 based on application requirements



# TECHNICAL SPECIFICATIONS

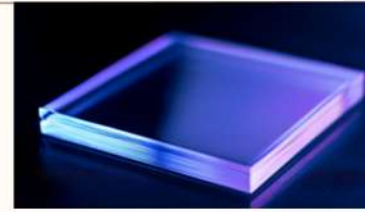
Parameter	Standard Specification	Custom Range
Material	High-purity fused silica	JGS1, JGS2, JGS3 grades available
Dimensions - Round	Ø8-500mm, thickness 1-100mm	Custom sizes available upon request
Dimensions - Square/Rectangular	Square: 10×10mm to 750×750mm, thickness 1-100mm Rectangular: L: 10-750mm; W: 10-550mm, thickness 3-100mm	Custom sizes available upon request
Edge Treatment	Straight edges (standard)	R-corner, C-corner, protective corner
UV Transmission	>80% (varies by wavelength)	Optimized for specific UV wavelengths
IR Blocking	Effective IR radiation reduction	Enhanced IR blocking available
Visible Light Transmission	>93%	Customizable based on requirements
Temperature Resistance	Long-term: 1100°C, Short-term: 1450°C	Application-specific optimization
Chemical Resistance	Resistant to most acids and chemicals	Not resistant to hydrofluoric acid



# SIZE CHART

## Square Coated Quartz Glass Sheet

Model Number	Dimensions (mm)	Thickness (mm)	Optical Properties
AT-SY-P2001	10×10	1	70% UV transmission, 70% IR reflection
AT-SY-P2002	25×25	1	
AT-SY-P2003	40×40	1	
AT-SY-P2004	60×60	2	
AT-SY-P2005	75*25	2	
AT-SY-P2006	75*25	2	
AT-SY-P2007	100×100	3	
AT-SY-P2008	120×120	2	



# SIZE CHART

## Square Coated Quartz Glass Sheet

Model Number	Dimensions (mm)	Thickness (mm)	Optical Properties
AT-SY-P2009	120×120	3	70% UV transmission, 70% IR reflection
AT-SY-P2010	150×150	2	
AT-SY-P2011	150×150	3	
AT-SY-P2012	180×180	2	
AT-SY-P2013	180×180	3	
AT-SY-P2014	250×250	3	
AT-SY-P2015	10-750 (Custom)	1-100	

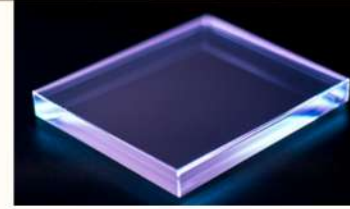




# SIZE CHART

## Round Coated Quartz Glass Disc

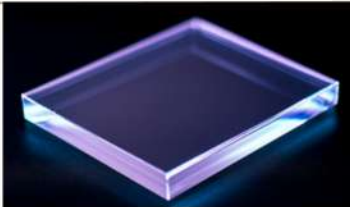
Model Number	Diameter (mm)	Thickness (mm)	Optical Properties
AT-SY-P2026	8	1	70% UV transmission, 70% IR reflection
AT-SY-P2027	10	1	
AT-SY-P2028	15	1.5	
AT-SY-P2029	30	1	
AT-SY-P2030	50	2	
AT-SY-P2031	100	5	
AT-SY-P2032	200	10	
AT-SY-P2033	8-500 (Custom)	1-100	



# SIZE CHART

## Rectangular Coated Quartz Glass Plate

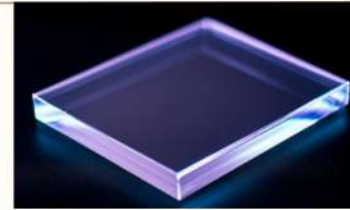
Model Number	Dimensions (mm)	Thickness (mm)	Optical Properties
AT-SY-P2016	135×320	3	70% UV transmission, 70% IR reflection
AT-SY-P2017	150×100	3	
AT-SY-P2018	150×200	3	
AT-SY-P2019	195×73.8	2	
AT-SY-P2020	215×160	4	



# SIZE CHART

## Rectangular Coated Quartz Glass Plate

Model Number	Dimensions (mm)	Thickness (mm)	Optical Properties
AT-SY-P2021	220×130	3	70% UV transmission, 70% IR reflection
AT-SY-P2022	280×150	3	
AT-SY-P2023	300×100	3	
AT-SY-P2024	300×150	3	
AT-SY-P2025	L: 10-750; W: 10-550(Custom)	3-100	



# SIZE CHART

## Special Shape Coated Quartz Glass Plates

Model Number	Dimensions (mm)	Thickness (mm)	Curvature	Optical Properties
AT-SY-P2034	121×62	2.5	68.18°	70% UV transmission, 70% IR reflection

TOQUARTZ® coated quartz glass plates for UV curing equipment are available in a wide range of dimensions and specifications to meet your exact requirements. We offer both standard sizes with quick delivery and custom dimensions for specialized applications.





# QUALITY ASSURANCE

All TOQUARTZ® products undergo rigorous quality control testing to ensure consistent performance and dimensional accuracy. Certificates of conformity are provided with all orders.

## Contact Information

Email: [info@toquartz.com](mailto:info@toquartz.com)

Website: [www.toquartz.com](http://www.toquartz.com)

TOQUARTZ® - Precision Quartz Solutions for Industry and Research