

# Lens of silicon resin for glass substrate

Arisawa can produce the Lens which is made by silicon resin on glass substrate.

The feature is High durability, a general material of acrylic resin and polycarbonate didn't achieve this characteristic.

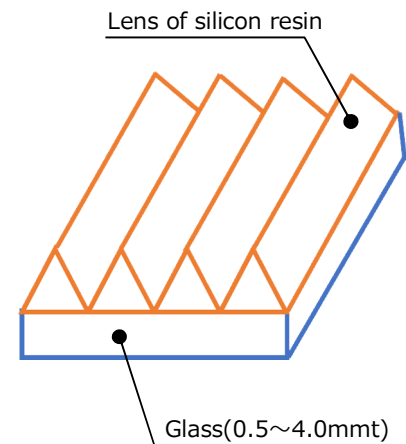
It is possible to offer maximum size "1230×1580mm".



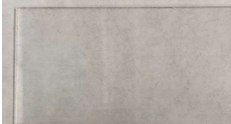
(excluding special shape)

## Application

Optical component for vehicle and architecture.

## Characteristic



		UV cured resin (General)	UV cured resin (High heat resistance)	Silicon resin
Tg (°C)		58	95	—
Elastic modulus (E'')		1.54E <sup>8</sup>	1.82E <sup>8</sup>	—
Transmittance <sup>*1</sup>	Initial	91.5	91.5	93.5
Refractive index <sup>*2</sup>	589nm	1.52	1.52	1.40
UV-resistant YI <sup>*3</sup>	Initial	0.78	0.66	0.58
	After exposure:10J	1.57	1.23	0.59
	Δ	0.79	0.57	0.010
Heat-resistant YI	Initial	0.675	0.808	0.489
	After 840hr at 110°C	1.857	1.269	0.527
	Δ	1.182	0.461	0.038
	After 150hr at 200°C			
		Significant deterioration (UV resin carbonization)	Significant deterioration (UV resin carbonization)	No change color No change adhesion

\*1 : Based on JIS K 7361

\*2 : Measured by Abbe refraction,

\*3 : Exposed by high pressure mercury lamp at 10 times(1J).

※The above measurement result is internal use and couldn't guarantee.

※ If you have any questions, please let us know.

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