Laser Shield Curtain Guide

These products are intended for protection or shielding from accidental exposure to scattered laser light.
Absorb indirect scattering light of laser light to protect the eye. The type, wavelength and optical density (OD) of laser light to be absorbed are inscribed on these products.

- Apply to windows, inset windows or partitions in laser controlled areas in laboratories and factories.
- Effective as safety measures for expected and unexpected visitors, since laser injuries can occur instantaneously.

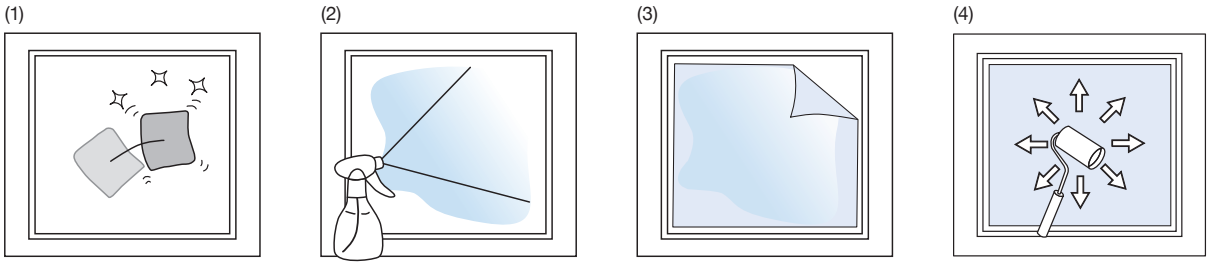
How to Attach and Install

Replace curtains periodically because the optical density may deteriorate depending on the usage or storage environment (direct sunlight, high temperature and high humidity) or due to scratches.

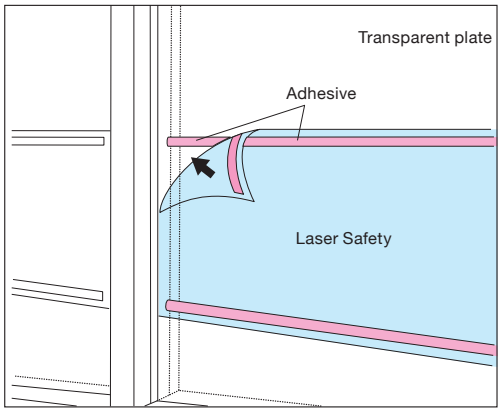
These products are made of flexible PVC, which may be vulnerable to degradation by organic solvents, acids, and alkalies, depending on the solvent type. If stained, wash with water containing a neutral detergent or wipe with alcohol.
Also wipe with alcohol when curtains become cloudy over time with oily exudations (plasticizer).

Installation method of YLC-1 laser shield curtain

(1) Wipe the glass clean.
(2) Spray water onto the glass surface.
(3) Apply the product to the wet glass.
(4) Push out water and air from underneath the product by moving a rubber spatula on top of the product from the center to its edges.



Attaching method of YL-600 laser curtain



Attention

- Do not use with incompatible lasers or wavelengths. (Even if laser names are the same, their wavelengths might be different.)
- Do not use products that are damaged or after they have received large laser energy.
- Never subject laser (shield) curtains to direct laser beam exposure. Direct exposure may damage the curtains.
- These are not protective equipments that completely absorb laser light. (Refer to the absorption characteristic graph.)
- Do not directly look into the laser beam through laser (shield) curtains.

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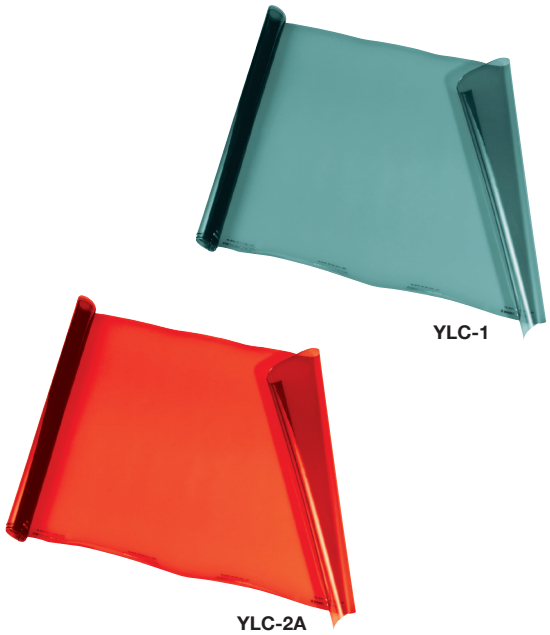
Laser Shield Curtain | YLC-1/YLC-2

RoHS CE Catalog Code W5008

Protect wider areas (width: 1000mm) compared to conventional YL-600 (effective width: 330mm), and offer excellent antistatic and fire retardant features.

- High visibility with improvements in surface accuracy and transmittance.
- High durability and flexibly used in various shapes since it adheres to water instead of glue.



YLC-1

YLC-2A

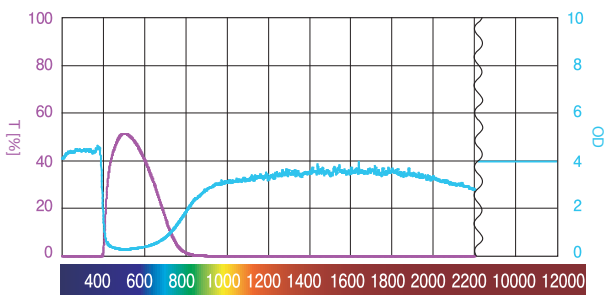
Common Specifications	
Material	Flexible PVC
Thickness [mm]	0.5
Compatible Wavelength [nm]	YLC-1: 266, 355, 1064, 2100, 10600 YLC-2A: 190 – 380, 441 – 532
Color	YLC-1: Clear gray YLC-2A: Clear orange
Optical Density [OD]	YLC-1: 3 YLC-2A: 4<
Visible Light Transmittance [%]	YLC-1: Standard 40 YLC-2A: Standard 30
Antistatic Property (Surface resistance value)	YLC-1: 1.1×10^{10} (JIS K6911) YLC-2A: 1.1×10^{13} (JIS K6911)
Fire Retardant	Class 2 fire retardant (JIS A1322)

An example of using YLC-1

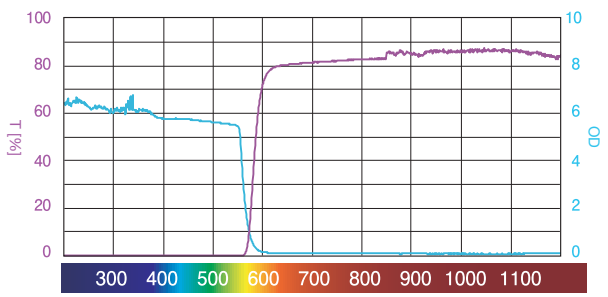
Part Number	Part Number	Length [mm]
YLC-1(0.5M)	YLC-2A(0.5M)	500
YLC-1(1M)	YLC-2A(1M)	1,000
YLC-1(2M)	YLC-2A(2M)	2,000
YLC-1(3M)	YLC-2A(3M)	3,000
YLC-1(4M)	YLC-2A(4M)	4,000
YLC-1(5M)	YLC-2A(5M)	5,000
YLC-1(6M)	YLC-2A(6M)	6,000
YLC-1(7M)	YLC-2A(7M)	7,000
YLC-1(8M)	YLC-2A(8M)	8,000
YLC-1(9M)	YLC-2A(9M)	9,000
YLC-1(10M)	YLC-2A(10M)	10,000

Absorption characteristic graph T: Transmittance

YLC-1



YLC-2A



* Note that the graphs of optical density show measured values, not guaranteed values.