

LCL 2100 XSR

Technical Specifications

LCL 2100 is a 21 mil thick film designed primarily for OEM use in impact resistant window fabrication.

Product Benefits

- Invisible Protection
- Reduces Heat Gain
- Lowers Energy Costs
- Holds Broken Glass Together
- Rejects over 99% of UV Rays
- Slows Fading of Fabrics, Flooring

Why Madico?

Madico window films are an elegant, practical solution for comfort, protection and natural appearance. Enjoy your view by embracing sunlight while minimizing the negative effects of the sun such as glare, harmful ultraviolet exposure and unwanted heat. Madico films are installed by professionals and backed by a manufacturer's warranty.

www.madico.com

Specification Use Statement

Reported values are typical properties and should not be used as a specification. Since the user is aware of the specific conditions in which the product is to be used, it is the user's responsibility to determine whether the product is suitable for intended use. If you need verification regarding specific use or additional information, please contact Madico Window Films or your local Madico Authorized Dealer.

Total Solar Energy:

Transmitted %	77.0
Reflected %	9.0
Absorbed %	14.0

Visible Light:

Transmitted %	86.0
Reflected Exterior %	10.0
Reflected Interior %	10.0
Glare Reduction %	4.0

Solar Heat Gain Coefficient	0.81
Shading Coefficient	0.93
Luminous Efficacy	0.92
Total Solar Energy Rejection %	19.0
Infrared Rejection % *	35.0

U Factor	1.07
Emissivity	0.90
Ultraviolet Rejection %	Exceeds 99.0

Physical Properties:

Film Thickness	0.023"
Structural Component	0.021"
Structure	Multi-Ply Laminate
Adhesive Type	Acrylic Pressure Sensitive
Tensile Strength ♦	32,000 PSI Avg. MD/TD
Break Strength ♦	630 Pounds Per Inch (Width)
Peel Strength ♦	5 to 6 Pounds Per Inch
Elongation at Break	150% MD / 100% TD

Read in accordance with National Fenestration Rating Council (NFRC) standards on 3mm clear glass.

* Near IR range (780-2500nm) Technical specification definitions can be found at www.madico.com

♦ Independent test reports available upon request.

LCL 2100 XSR Performance on Installed Windows as Certified by the National Fenestration Rating Council (NFRC)

Type	Default Glazing Reference	SHGC without Film	SHGC With Film	VLT Without Film	VLT With Film	U Factor
Residential	3 mm (1/8in.) clear	0.72	0.68	0.74	0.70	1.09
Residential†	3 mm (1/8in.) clear 3 mm (1/8in.) clear	0.64	0.63	0.67	0.64	0.71
Non Residential	6 mm (1/4in.) clear	0.73	0.71	0.78	0.75	1.03
Non Residential	6 mm (1/4in.) grey	0.52	0.52	0.39	0.38	1.03
Non Residential†	6 mm (1/4in.) clear 6 mm (1/4in.) clear	0.63	0.64	0.69	0.67	0.59
Non Residential†	6 mm (1/4in.) grey 6 mm (1/4in.) clear	0.41	0.42	0.35	0.34	0.59

† Dual pane window