

GLASS THAT KEEPS ITS COOL



HOLD COLD, SEE SAVINGS

Reduce cooling costs and improve the view with ThermaGuard by Guardian.

ThermaGuard glass sets new standards for performance and aesthetics in commercial refrigeration.

Efficient Performance

ThermaGuard low-emissivity glass and insulating glass units (IGUs) keep refrigeration units cool and efficient—so retailers use less energy and save operating costs. ThermaGuard glass supports Energy Star, EPA and EISA compliance.

Clear Views

ThermaGuard glass creates an optimal shopping experience. With enhanced light transmission, virtually no reflection, and resistance to the scratches and scuffs of daily wear, ThermaGuard eliminates barriers between shoppers and the goods.

Outstanding Service

As one of the world's leading glass manufacturers, Guardian is uniquely positioned to satisfy high volume, high quality refrigeration glass and IGU demands. With several fabrication options, thicknesses and dimensions available, ThermaGuard glass and IGUs can be made to order to suit your exact specifications. We'd love to learn about your project and collaborate on a custom solution. Our engineers, suppliers, sample systems and online tools will support you from concept to completion.

High Performance Solutions to Meet Your Needs

ThermaGuard 2	Provides an optimal balance of energy efficiency and high light transmission for clear views and low emissivity
ThermaGuard 2 Premium	Provides the highest level of energy efficiency under extreme conditions of temperature and humidity
ThermaGuard 2T	A temperable, low-E option
ThermaGuard AR	An anti-reflective temperable product that reduces surface reflection and glare while maximizing light transmission
ThermaGuard SRG	Scratch resistant glass technology makes the exposed surface ten times harder to scratch than regular glass

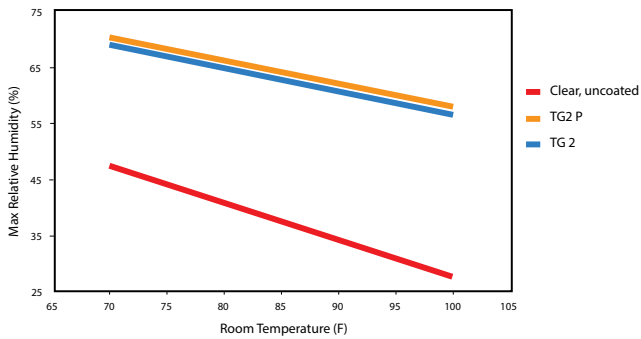
THERMAGUARD PERFORMANCE DATA

Product	Featured Performance	Visible Light Transmission Monolithic	Visible Light Transmission IGU*	Emissivity	Sheet Resistance (ohm/sq)	Thickness (mm)	Option
ThermaGuard 2	Low-E coating	77%	71%	0.035	2	3.0, 4.0, 5.0, 6.0	Cut-size
ThermaGuard 2 Premium	Low-E coating	71%	64%	0.026	2	3.0, 4.0, 5.0, 6.0	Cut-size
ThermaGuard 2T	Temperable low-E coating	80%	73%	0.04	2	3.0, 4.0, 5.0, 6.0	Stock-sheet
ThermaGuard AR Single sided	Anti-reflective coating; annealed or temperable	> 92%	> 85%	Like glass	n/a	3.0, 4.0, 5.0, 6.0	Cut-size or stock-sheet
ThermaGuard AR Double sided	Anti-reflective coating; annealed or temperable	> 96%	> 89%	Like glass	n/a	3.0, 4.0, 5.0, 6.0	Cut-size or stock-sheet
ThermaGuard SRG	Scratch resistant glass	86%	78%	Like glass	n/a	3.0, 4.0, 5.0, 6.0	Cut-size

*Simulated IGU 3.2mm Clear/14mm Argon/3.2mm Clear

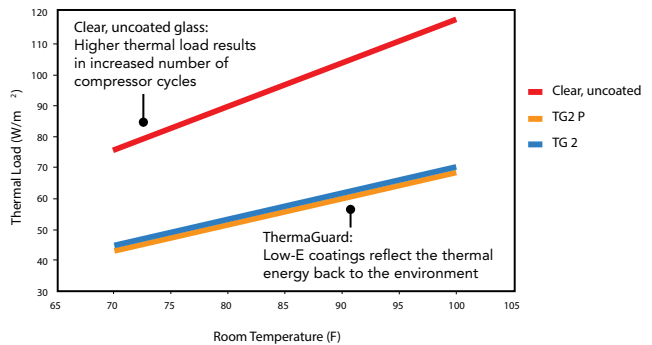
CONDENSATION CONTROL

ThermaGuard enables higher relative humidity, minimizing the potential for condensation



ENERGY EFFICIENCY

ThermaGuard's high efficiency means lighter thermal loads



Testing conditions: 3.1mm/14mm Argon/3.1mm Low-E on surface #2—Refrigeration Temperature = -0.4F (-18C)

Contact a regional Guardian location for additional product information.

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*Specific data sheet available for Europe



See what's possible™

Headquartered in Auburn Hills, Michigan, Guardian Glass is a leading international manufacturer of float, value-added coated, and fabricated glass products and solutions for architectural, residential, interior, transportation and technical glass applications. To learn more, visit GuardianGlass.com.

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