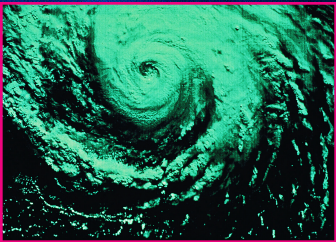




MADICO

*Protekt®: The window film that comes between you and danger.*



# MADICO Protekt® *Safety and Security Film* applied to your windows can cut your risk of

The idea behind Protekt is simple: You can't stop windows from breaking, but you can lessen the chance that glass fragments will fly about like deadly missiles. Whatever the reason for glass failure – an accident, a hurricane, an earthquake, a tornado, a terrorist bomb, or a burglary – Protekt window film helps hold glass shards together, improving both safety and security and decreasing personal injury and property damage.

## Technology you can't see, but you can trust.

Protekt is a transparent, high-efficiency micro-thin film that is bonded to glass with a specially formulated adhesive. Glass and film virtually become one, and a barrier is created on the inside of your windows that helps contain flying glass shards if windows are shattered by accidental or intentional impact, explosive pressure, or the force of high, driving winds.

## How Protekt can make a dangerous world safer.

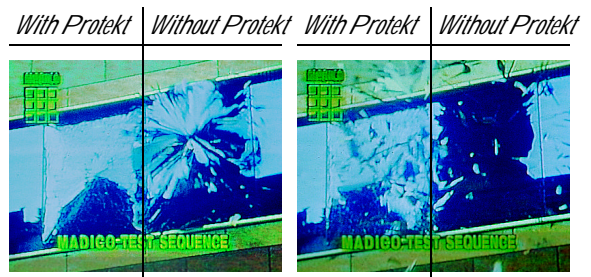
### *Protekt can steal the rewards of "smash-and-grab" theft.*

Burglars and looters depend upon speed. Smash a window, grab the merchandise and go before police arrive. A Protekt window is harder to break through and more likely to stay intact when smashed, making entry difficult and stealing thieves' most precious commodity—time. They'll probably leave empty-handed.

### *Protekt reduces the danger of natural disasters.*

When earthquakes, hurricanes, high winds or tornadoes shatter glass, the flying and falling fragments can become deadly. And once its glass barrier is breached, a building's interior is then vulnerable to rain, water damage and flying debris, too. Protekt helps keep deadly glass shards in place, lessens water damage and reduces liability.

Explosive glass fragmentation occurs on unprotected pane on the right while glass on the left is held in place with Madico Protekt® window film.



### *Protekt curtails the effects of industrial accidents and explosions.*

People and equipment can suffer serious injury from glass shards when chemicals, fuel or escaping gas explodes. By reducing damages and injuries, Protekt also reduces medical bills and insurance costs.

### *Protekt lessens the impact of terrorism and violence.*

Bombings, riots and civil upheaval often target public buildings and certain commercial institutions. Protekt film greatly reduces the likelihood that occupants will be injured by flying glass. They feel more secure and have greater peace of mind.

# personal injury, property damage and theft.

Other useful applications  
for Protekt safety window film.



## *Control of UV fading and degradation.*

The sun can be a formidable enemy. In museums, damaging UV radiation slowly "steals" precious works of art through fading and hastened deterioration; in commercial/retail establishments, it threatens the investment in merchandise and furnishings; and in residences, it can drastically shorten the life of carpets, furniture and drapes. Every Protekt window film rejects up to 99% of UV rays. CLS-200 is a clear, colorless film designed specifically for museums and store fronts.

## *Reduction of solar gain and heat loss.*

Protekt tinted and reflective window films help keep out unwanted solar heat gain in summer, and help retain interior heat during winter. The result is a higher level of comfort and substantially lower energy costs.



*Protekt makes "smash-and-grab" theft more difficult.*

## *Protection against graffiti.*

Vandals are changing the technique of their "art." Instead of spray paints, it's now glass-etching. The Protekt anti-graffiti film, a specially formulated multi-ply coating installed on the outside, acts as a protective layer that helps keep windows clear and scratch-free and reduces the likelihood of costly glass replacement. The film is replaced with no damage to the glass in most cases.



**P**rotekt® films  
reduce the likelihood  
of shattering glass and  
airborne shards in the  
event of glass breakage.

The level of protection you need...  
the style of film you want.

Protekt polyester films are available in clear, tinted and reflective styles and in thicknesses from 2 mil to 14 mil. Resistance to cutting, tearing and impact increases as film thickness increases. The higher mil grades make use of multi-layers of plastic film and special adhesives to create a laminate with superior break-resistance because of sequential impact absorption dilution. Most Protekt films pass the 150 ft./lb. impact requirements of ANSI Z97.1 Safety Glazing Standard. Certain thicker films meet the 400 ft./lb. ANSI criteria as well as the Category II requirements of the Consumer Product Safety Commission Safety Standard for Architectural Glazing Materials, CPSC 16 CFR 1201\*.

\* Independent test lab reports for impact and weathering are available upon request.

*When Scotland Yard  
needed increased security,  
they chose Protekt.*





*Madico Protekt window films provide added protection against natural and man-made disasters.*

When you choose safety film, make it Protekt.

*It makes all the difference in the world...*

*Get professional installation and a solid guarantee.*

Whether for residences, retail stores, public buildings, schools, hospitals, restaurants, or hotels, your Madico dealer can suggest the right grade of Protekt for the level of safety and security you wish to achieve. Professional installers will retrofit Protekt without disrupting your business or normal work routine, and in a minimal amount of time. Once installed, Protekt films carry a factory-backed warranty supported by our worldwide dealer/installer network. Protekt can be maintained with a soft cloth and soapy water or spray-and-wipe cleaning.

*Get the advantage of over 90 years of experience and innovation.*

Madico's industry expertise and manufacturing resources are extensive, and our window films are the product of a problem-solving approach, along with years of invention, refinement, and improvement.

### Comparative Performance Guide

Film	Available Thickness*	Color	Exterior	SR	Construction	Break Strength**	% Solar Energy			% VLT	Winter "U"		% UV Light Transmitted	Shading Coefficient	% Total Solar Energy Rejected
							Transmitted	Reflected	Absorbed		Median	Design			
<b>Reflective</b>															
RS-220XSR	4 Mil	Silver	No	All	Multi-ply	100lb/inch	12	48	40	16	0.91	0.96	0-4.0	.24	79
RS-440XSR	4 Mil	Gray	No	All	Multi-ply	100lb/inch	24	40	36	36	0.94	0.99	0-4.0	.38	66
RG-321XSR	4 Mil	Gray	No	All	Multi-ply	100lb/inch	14	24	62	17	0.92	0.98	0-4.0	.34	71
RB-321XSR	4 Mil	Bronze	No	All	Multi-ply	100lb/inch	18	29	53	16	0.95	0.98	0-4.0	.35	69
SRS-220XSR	8 Mil	Silver	No	All	Multi-ply	200lb/inch	13	51	36	16	0.98	1.03	0-4.0	.26	79
RS-440XSR	8 Mil	Gray	No	All	Multi-ply	200lb/inch	24	36	40	36	0.94	0.98	0-4.0	.39	66
<b>Neutralux</b>															
NG-50XSR	4 Mil	Lt. Gray	No	All	Multi-ply	100lb/inch	40	14	46	43	1.02	1.06	0-4.0	.60	48
NG-70XSR	4 Mil	Neutral	No	All	Multi-ply	100lb/inch	59	12	29	64	1.08	1.12	0-4.0	.77	33
NB-50XSR	4 Mil	Bronze	No	All	Multi-ply	100lb/inch	42	12	46	48	0.99	1.03	0-4.0	.62	46
NG-50XSR	8 Mil	Lt. Gray	No	All	Multi-ply	200lb/inch	40	14	46	43	1.02	1.06	0-4.0	.60	48
NB-50XSR	8 Mil	Bronze	No	All	Multi-ply	200lb/inch	42	12	46	48	0.99	1.03	0-4.0	.62	46
<b>Matte</b>															
RMS-220X	2 Mil	Silver	No	No	Single-ply	50lb/inch	12	46	42	15	1.02	1.06	0-4.0	.26	77
MT-200X	2 Mil	Bronze	No	No	Single-ply	50lb/inch	41	11	48	25	1.08	1.12	0-4.0	.63	45
	2 Mil	Gray	No	No	Single-ply	50lb/inch	36	9	55	21	1.08	1.12	0-4.0	.60	48
	2 Mil	White	No	No	Single-ply	50lb/inch	63	12	25	66	1.08	1.12	0-4.0	.80	30
<b>Clear</b>															
CLS-200X	2 Mil	Clear	Yes	Avail.	Multi-ply	50lb/inch	78	10	12	85	1.08	1.12	0-1.0	0.93	19
CL-200X	2 Mil	Clear	No	Avail.	Single-ply	50lb/inch	78	10	12	85	1.08	1.12	0-4.0	.93	19
CL-400X	4 Mil	Clear	No	Avail.	Single-ply	100lb/inch	79	10	11	84	1.08	1.12	0-4.0	.94	19
LCL-600XSR	6 Mil	Clear	No	All	Multi-ply	150lb/inch	79	10	11	83	1.08	1.12	0-4.0	.93	19
CL-700XSR	7 Mil	Clear	No	Avail.	Single-ply	175lb/inch	76	10	14	84	1.08	1.12	0-4.0	.93	19
LCL-800XSR	8 Mil	Clear	No	All	Multi-ply	200lb/inch	78	10	12	84	1.08	1.12	0-4.0	.93	19
LCL-1400XSR	14 Mil	Clear	No	All	Multi-ply	350lb/inch	74	10	16	82	1.08	1.12	0-4.0	.92	20

\* 7 Mil and thicker meet 400 ft/lb ANSI Z-97.1 impact criteria as well as Category II requirements of CPSC 16 CFR 1201. Independent test lab reports for impact and weathering are available upon request.

\*\* All films have a tensile strength of 25,000 PSI, an acrylic pressure-sensitive mounting adhesive with a peel strength of 5-6 lbs./inch.



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Charter member of the International Window Film Assoc. (IWFA)

*Many other films available. See your local Madico Dealer.*

Madico is a participating member of the Association of Industrial Metalizers, Coaters and Laminators (AIMCAL). All data reported in this brochure has been measured and calculated in accordance with AIMCAL standards unless otherwise noted. Since only the user is aware of specific conditions in which the product is to be used, it is the user's responsibility to determine whether the product is suitable for that intended use. If specific conditions are critically dependent on any of the properties of the product, or if you need further information of any type, contact Madico or a Madico Window Film Dealer.