

## Product Features and Benefits

- Combination safety/ solar control window film
- Help protect from broken glass hazards
- Increase privacy, reduce glare and eye discomfort
- Increase comfort and reduce air conditioning costs
- Helps extend the life of furnishings by significantly reducing harmful UV rays

## Applications

- Bomb Blast Protection
- Building Envelope Protection
- Helping to Deter Break & Entry
- Safety Glazing
- Spontaneous Glass Breakage
- Seismic Preparedness

## Performance Testing

Method	Glass Substrate	Film Attachment	Rating	
<b>Safety Glazing</b>				
16 CFR 1201	¼" annealed	--	Category 2, 400 ft-lbs	
ANSI Z97.1			Class A (Unlimited), 400 ft-lbs	
<b>Impact Resistance</b>				
ASTMs E1886 / E1996	NA			
<b>Blast Mitigation</b>			<b>Blast Load</b>	<b>Rating</b>
GSA TS01-2003 / ASTM F1642	NA			

Glazing systems vary. Contact 3M for more information.

## Film Properties (nominal)

Film Thickness	8 mils
Film Construction	Laminated conventional PET
<b>Tensile Properties (ASTM D882)</b>	
Tensile Strength	23,000 psi (MD) / 33,000 psi
Break Strength	170 lb/in (MD) / 280 lb/in (TD)
Elongation at Break	100% (MD) / 80% (TD)
Yield Strength	>12,000 psi (MD)
Elongation at Yield	>3%
Modulus	580 kpsi (MD) / 615 kpsi (TD)
Abrasion Resistance (ASTM D1044)	+3% Δ Haze
Peel Strength	4.5 lb/in
Flammability (ASTM E84)	Class A

Solar Properties – film applied to ¼" glass				
	¼" Clear	¼" Tint	Dual Clear	Dual Tint
<b>VLT</b>	38%	22%	34%	20%
<b>VLR-Int</b>	13%	12%	14%	13%
<b>VLR-Ext</b>	21%	10%	25%	12%
<b>SHGC</b>	0.45	0.40	0.51	0.39
<b>TSER</b>	55%	60%	49%	61%
<b>UV Block</b>	99%	99%	99%	99%
<b>Glare ↓</b>	58%	65%	52%	61%
<b>U-Value</b>	1.00	1.03	0.48	0.47
<b>Solar Heat ↓</b>	45%	36%	27%	23%

## Health and Safety

### IMPORTANT NOTICE:

This product is **not approved** in the State of Florida for use as hurricane, windstorm, or impact protection from wind-borne debris from a hurricane or windstorm. In compliance with Florida Statute 553.842, this product may not be advertised, sold, offered, provided, distributed, or marketed in the State of Florida as hurricane, windstorm, or impact protection from wind-borne debris from a hurricane or windstorm.

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### Commercial Solutions Division

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