Ultra Prestige S70

### **Product Features and Benefits**

- Combination safety / solar control window film
- Micro-layered film designed for tear resistance
- Virtually clear film with heat rejection properties
- Helps protect from broken glass hazards
- Increase comfort and help reduce air conditioning costs
- Helps extend the life of furnishings by significantly reducing harmful UV rays

### **Performance Testing**

### **Applications**

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

Method	Glass Substrate	Film Attachment	Rating				
Safety Glazing							
16 CFR 1201	1/4" annealed		Category 2, 400 ft-lbs				
ANSI Z97.1			Class A (Unlimited), 400 ft-lbs				
Impact Resistance							
ASTMs E1886 / E1996	1/4" tempered	IPA	Missile Level C				
Blast Mitigation			Blast Load	Rating			
GSA TS01-2003 / ASTM F1642	1/4" tempered	IPA	6 psi, 42 psi*msec	GSA Level 2 / ASTM "No Hazard"			
	1" double pane (annealed)	IPA	8 psi, 60 psi*msec	GSA Level 2 / ASTM "No Hazard"			

\*Glazing systems vary. Contact 3M for more information.

### Film Properties (nominal)

Film Thickness	8 mils		
Film Construction	Micro-layered Laminated		
Tensile Strength	24,000 psi (MD) /26,000 psi (TD)		
Break Strength	200 lbs/in (MD) /215 lbs/in (TD)		
Elongation at Break	104% (M	04% (MD) /118% (TD)	
Yield Strength	00 psi (MD)		
Elongation at Yield		8%	
Modulus	00 kpsi		
Abrasion Resistance (	$3\% \Delta Haze$		
Peel Strength (	4.5 lb/in		
Flammabilit	Class A		
Graves Area Tear Resi	1,100 lbs%		
Puncture-Propagation-Tear (	10 lbf		

Puncture	185 lbf								
Solar Properties – film applied to ¼" glass									
	¼" Clear	1/4" Tint	Dual Clear	Dual Tint					
VLT	68%	41%	61%	36%					
VLR-Int	8%	7%	12%	11%					
VLR-Ext	9%	6%	16%	9%					
SHGC	0.51	0.44	0.56	0.42					
TSER	49%	56%	44%	58%					
UV Block	99.9%	99.9%	99.9%	99.9%					
Glare ↓	23%	36%	14%	29%					
U-Value	1.01	1.01	0.48	0.48					
Solar Heat ↓	38%	31%	21%	19%					

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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**

3M Center, Building 220-12E-04 St. Paul, MN 55144 3M.com/windowfilm

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