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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Commercial Solutions Division

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