3M Ultra Safety Security Films vs Competition

3M Scotchshield Ultra Film (<i>Patented</i>)		Competition (Standard PET films)	
	Abrasion Resistant Coating	Abrasion Resistant Coating	
	13 Micro-Layers	Single Layer PET	
	Laminating adhesive	Laminating Adhesive	
	13 Micro-Layers	Single Layer PET	
	Laminating Adhesive	Pressure Sensitive Adhesive	
	13 Micro-Layers	Liner	
	High-Mass Pressure Sensitive Adhesive		
	Dissolvable Overcoat		
	Liner		

Note: **3M** Ultra 400 films have 26 Micro-Layers and **3M** Ultra 600 films have 39 Micro Layers.

- 1. The Micro-Layers in **3M** Scotchield Ultra film help promote elongation. This allows the film to stretch without breaking. This elongation helps hold the glass together and absorb impact energy.
- 2. More force is required to break **3M** Scothshield Ultra films than conventional PET films.
- 3. Once penetrated, standard PET films rip under less force than **3M** Scotchshield Ultra films.
- 4. Thickness is not a measure of a security films performance, the measure is how it is constructed.
- 5. Thicker security films (10 mil and 14 mil) usually have less optical clarity.
- 6. **3M** is the <u>only</u> manufacturer of window films that produces its own adhesives and polyesters.
- 7. **3M** is the only window film on the market that you can clean with ammonia based products, such as Windex.