

Protecting people and property with 3M™ Impact Protection Attachment Systems.

3M™ Impact Protection Attachment (IPA) Sealant

3M™ Safety & Security Impact Protection Attachment (IPA) Sealant improves the overall performance of 3M™ Safety and Security Window Films. This window protection system combines the toughness of 3M Safety and Security Window Film with an edge retention system to help shield against impact from a variety of sources including bomb blasts and forced entry events. The 3M Impact Protection Attachment Sealant also helps protect against personal injury from flying glass.



Property	Test Method Used	Units	3M IPA
Curing Time at 25°C (77°F), 50% RH		days	< 14
Full Adhesion	ASTM C 679	days	> 14
Tack-Free Time at 25°C (77°F), 50% RH	ASTM C 639	minutes	60–70
Flow, Sag or Slump		inches	0.1
Working Time at 25°C (77°F), 50% RH		minutes	10–20
Specific Gravity		n/a	1.40
VOC Content		g/L	30
As Cured — After 21 Days at 25°C (77°F), 50% RH			
Tensile Strength at 50%	ASTM C 1135	psi	75
Joint Movement Capability	ASTM C 719	%	±50
As Cured — After 21 days at 25°C (77°F), 50% RH and 4500 Hours of QUV ASTM G-53			
Tensile Strength at 50%	ASTM C 1153	psi	78

Benefits:

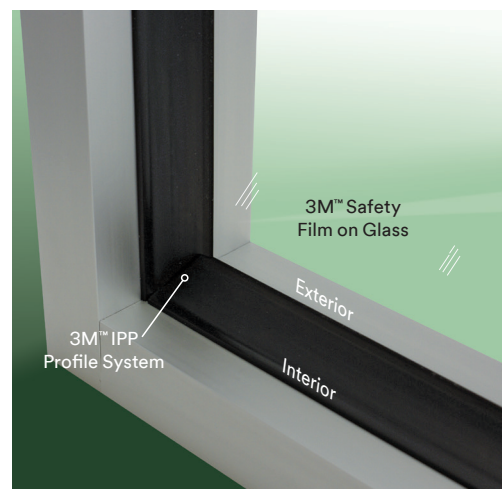
- ▶ Excellent tear, elongation and tensile strength
- ▶ Anchors the filmed glass to the window frame
- ▶ Enhances protection to help preserve the building envelope when the glass is shattered



3M™ Impact Protection Profile (IPP)

3M™ Impact Protection Profile improves the overall performance of 3M™ Safety & Security Window Film. This unique window protection system combines the toughness of 3M's patented micro-layer safety film with 3M's world-class expertise in adhesives and a high strength, flexible polymer attachment to help shield against impact energy from severe weather, earthquakes, bomb blasts or forced entry events. The 3M Impact Protection Profile System also helps protect against personal injury from flying glass.

- ▶ Minimal cure time provides more immediate protection
- ▶ Reduced odor in your home or office compared to sealant options
- ▶ No mess installation
- ▶ Provides a finished, clean look



Property	Test Method Used	Units	Value
Full Adhesion	—	days	1–2*
Ultimate Tensile Strength	ASTM D0412	psi (Mpa)	> 20.500 (> 142)
Ultimate Elongation	ASTM D0412	%	400%
Break Strength, Die B	ASTM D0624	ppi	> 71

*Based on temperature above 15°C (60°F).

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