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3M™ Impact Protection Attachment (IPA) Sealant

3M™ Impact Protection Attachment (IPA) Sealant improves the overall performance of 3M™ Safety & Security Window Films. This product is a window film attachment sealant or “wet glaze” engineered to anchor window film to the frame of a glass window or glass door. The 3M™ IPA, combined with the appropriate window film, helps secure broken glass in the window or door frame and helps to reduce the occurrence of flying glass shards in the following applications:

- Spontaneous glass breakage
- Break and entry incidents
- Seismic events
- Intentional and accidental explosions
- Windstorm, or impact protection from wind-borne debris
- Safety glazing (annealed glass)



Benefits

- Helps secure the filmed glass to the window frame
- Excellent tear, elongation and tensile strength



Property	Test method	Value with units
Curing time (25°C (77°F), 50% RH)		7-14 days
Full adhesion (for 3/8" bead)	ASTM C639	> 14 days
Tach free time (25°C (77°F), 50% RH)	ASTM 0679	60 minutes
Flow, sag, or slump	ASTM C639	0.1 inches
Working time (25°C (77°F), 50% RH)		10-20 minutes
Specific gravity		1.34
VOC content		30 gm/l
As cured- After 7 Days at 25°C (77°F), 50% RH		
Durometer hardness, Shore A	ASTM D2240	40 points
Peel strength	ASTM C794	40 ppi
Tear strength, Die B	ASTM D624	49 ppi
As cured- After 21 Days at 25°C (77°F), 50% RH		
Ultimate tensile strength	ASTM D412	170 Psi
Joint movement capability	ASTM C719	±50%

Products must be installed with the 3M™ Impact Protection Attachment (IPA) Sealant for all windstorm, break & entry, and explosion mitigation applications and for all spontaneous glass breakage applications on single pane tempered glass (product is not bulletproof and is not designed to stop intruders).

IMPORTANT: This is an overview of product features. References to explosions or blasts apply only to commercial and non-educational government facility applications. Prior to product selection, always refer to the current 3M Technical Data Sheet for detailed product information.

CAUTION: While 3M™ Window Films, when applied in accordance with 3M instructions, may help reduce the impact of flying glass shards under certain conditions and potentially delay intruders, THESE FILMS DO NOT PREVENT PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH. WINDOW FILMS ARE NOT BULLETPROOF AND NOT DESIGNED TO STOP INTRUDERS

CAUTION: Although certain 3M™ Window Films help block a certain percentage of UVA and UVB radiation and may have received The Skin Cancer Foundation Seal of Recommendation, the efficacy of these films in protecting against skin cancer has not been tested by 3M and 3M™ WINDOW FILMS DO NOT PREVENT SKIN CANCER.

IMPORTANT PRODUCT AND APPLICATION LIMITATIONS: Many factors can contribute to potential hazards and damages arising from wind, impact, seismic, explosion, or break and entry incidents, including the window film selected, type and thickness of glass, building construction, exterior pressure, proximity of impact occurrence, quality of window or door frames, intruder size and strength, and type of tools used to gain entry. Certain 3M™ Window Films require the use of 3M™ Impact Protection Attachment (IPA) Sealant on glass window and door frames for windstorm, break & entry, and explosion mitigation applications and for spontaneous glass breakage applications on single pane tempered glass. The sealant may also be recommended for certain other spontaneous glass breakage, safety glazing, and seismic applications. Always refer to the 3M Technical Data Sheets and 3M Technical Specifications to determine whether these combinations are required. Always consult with security professionals and a 3M Authorized Window Film Dealer prior to selecting any window films to determine suitability for the intended application.

IMPORTANT STATE OF FLORIDA 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.

Warranty, Limited Remedy, and Disclaimer: Please refer to the Warranty Bulletin for 3M™ Window Films (Flat Glass Applications) and 3M™ Impact Protection Attachment (IPA) Sealant for complete details on warranty coverage, which can be obtained by contacting your 3M Authorized Window Film Dealer or your local 3M sales representative. If a 3M product does not conform to the warranties described in this Warranty Bulletin, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. Except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

