



PRODUCT DATA SHEET

SMARTGARD SIGNALS DEFENSE SECURITY GLAZING 1/8" Laminated Signals Defense SD2500 Film in Makrolon® Polycarbonate

PRODUCT #: SD2500-0216-MAK

DESCRIPTION:

The SMARTGARD SD2500-0216-MAK product provides the HIGHEST levels of RF and IR attenuation, meets and exceeds the requirements of various US Government organizations' specifications for optically clear RF/IR/UV attenuating film/optical coatings, especially with respect to IR, and is listed by DoD as an RF/IR Attenuation film tested to be "beneficial" as alternative shielding including TEMPEST Countermeasures.

FEATURES:

- Anti-Eavesdropping
- Signal Attenuation
- WLAN Security
- EMI protection
- UV protection

CONSTRUCTION:	PERFORMANCE DATA:
Makrolon® (hard-coated) Polycarbonate Clear Custom Adhesive Interlayer SD2500 Signal Attenuation Film Clear Custom Adhesive Interlayer Makrolon® (hard-coated) Polycarbonate	Product Class: Signal Attenuation Laminate Thickness: .125" (1/8")
ADD-ON OPTIONAL FEATURES	RF Attenuation: >46 dB IR Transmission: <1% (800-1500nm) UV Transmission: <1%
<ul style="list-style-type: none"> • 3M™ VHB™ Acrylic Foam Tape for Non-Mechanical Adhesion • Self-Adhering Chrome Finish Corner Edge Frame 	RF & IR are typical values as tested by the United States DoD VLT (400-780nm): >53% Solar Heat Gain C: .30 Shading C: .35
TESTING PROTOCOLS	
TEST: Taber abrasion ASTM D-1044/500gm Load CS10F Wheels; RESULT: <1% Haze after 100 revolutions.	
COMPLIANCES	
<ul style="list-style-type: none"> • ASTM D638 – For Ultimate Tensile Strength • ASTM D790 – For Flexural Strength 	<ul style="list-style-type: none"> • ASTM C1349 – For Laminate Quality • ASTM D3763 – Instrumented Impact
GLAZING INFORMATION	
The AIT Group strongly suggests the use of a suitable structural security framing with an appropriate protection rating. A minimum framing engagement of one (1) inch is recommended, (Larger lites may require deeper engagements.) It is imperative to the life and durability of certain composite types that compatible sealant or gasket material is used on both sides of the laminate. An appropriate sealant solution can be specified by AIT if required.	
CLEANING INSTRUCTIONS	
Rinse with clean water to remove abrasive dust and dirt. Wash with soap or mild detergent using a sponge or soft cloth. <u>Do not scrub.</u> Rinse once more. Dry with a soft cloth or chamois to prevent water spots. To remove labels, stickers, or grease, rub gently with a cloth wetted thoroughly in VM & P Naphtha or Isopropyl alcohol. Wash and rinse. <u>NO RAZOR BLADES, SCRAPERS, or SQUEEGEES should ever be used.</u>	
WARRANTY	
Limited Warranty- AIT/LTI warranties the laminate system against plastic delamination for a 3-year period from date of shipment see additional warranty details online at www.Advanced-Impact.com or www.LTISG.com .	
MANUFACTURER INFORMATION	
This product is manufactured by the AIT Group (Advanced Impact Technologies & LTI Smart Glass)	

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FOR MORE INFORMATION, PLEASE CONTACT:



Advanced Impact Technologies (AIT)

Tel: (727) 287-4620 • Fax: (727) 431-9834 • www.Advanced-Impact.com