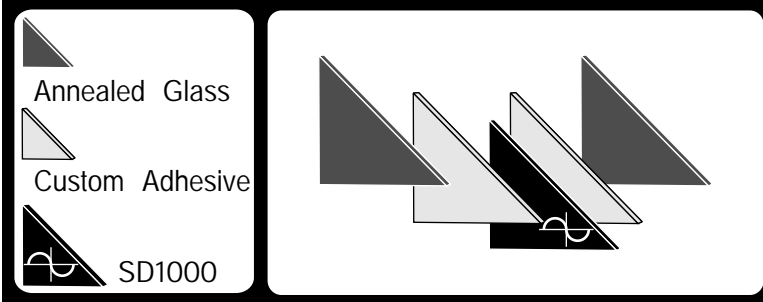




# SMARTGARD - SD1000/0516-AG

## RF/IR/UV ATTENUATION LAMINATE



## PRODUCT DETAILS

PRODUCT CLASS	SIGNAL ATTENUATION
RF (30MHz-6+GHz)	>33 dB
IR TRANSMISSION	<3% (800-1500nm)
UV TRANSMISSION	<1%
VLT (400-780nm)	>65%
SHGC / ShadingCO	.47 / .55
LAMINATE THICKNESS	.310" (5/16")

## TESTING PROTOCOLS

RF & IR Are Typical Values As Tested By The United States Department of Defense

### DESCRIPTION

The SMARTGARD-SD1000/0516-AG 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.

### GLAZING INFORMATION

The LTI 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.)

### SPECIFICATION

Annealed Glass x2 plies  
 Clear custom adhesive interlayer x2 plies  
 SD1000 Signal Attenuation Film x1 ply  
 5 Individual layers make up the SMARTGARD-SD1000/0516-AG composite product

Additional Optional Product Features:  
 3M™ VHB™ Acrylic Foam Tape For Non-Mechanical Adhesion  
 Self Adhering Chrome Finish Corner Edge Frame

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 LTI if required.

The LTI Group produces the finest glass and composite laminates in the world, proper care during installation will ensure years of superior performance.

### STANDARDS

ASTM C 1036-01 For Flat glass  
 ASTM C 1172-96 For Laminated Architectural Flat Glass  
 ASTM C1349 For Laminate Quality  
 ANSI Z97.1.1984(R1975) For Safety Glazing Materials Used In Buildings

### MANUFACTURER INFORMATION

**LTI SMART GLASS, INC.**  
 PITTSFIELD, MA +1.413.637.5001  
  
 LENOX, MASS. +1.413.637.5001

### WARRANTY

Limited Warranty- LTI warranties the SMARTGARD-SD1000/0516-AG laminate system against plastic delamination for a 3 year period from date of shipment see additional warranty details online at [www.LTISG.com](http://www.LTISG.com).

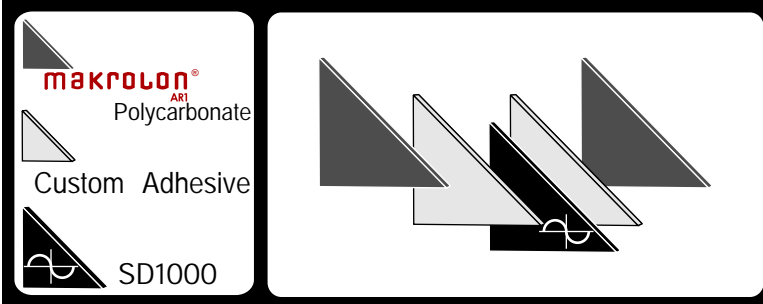




# SMARTGARD - SD1000/0516-MAK

## RF/IR/UV ATTENUATION LAMINATE

## PRODUCT DETAILS



PRODUCT CLASS	SIGNAL ATTENUATION
RF (30MHz-6+GHz)	>33 dB
IR TRANSMISSION	<3% (800-1500nm)
UV TRANSMISSION	<1%
VLT (400-780nm)	>65%
SHGC / ShadingCO	.47 / .55
LAMINATE THICKNESS	.310" (5/16")

## TESTING PROTOCOLS

STANDARD USED	RESULT
Taber Abrasion ASTM D-1044/500gm Load CS10F Wheels	<1% Haze After 100 Revolutions
RF & IR Are Typical Values As Tested By The United States Department of Defense	

## DESCRIPTION

The SMARTGARD-SD1000/0516-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.

## GLAZING INFORMATION

The LTI Group strongly suggests the use of a suitable structural security framing. Framing options and services are available from LTI.

### CLEANING INSTRUCTIONS

Rinse with clean water to remove abrasive dust and dirt. Wash with soap or mild detergent using a sponge or soft cloth. Do not scrub.

## SPECIFICATIONS

**makrolon<sup>®</sup>** (Hard Coated) x2 plies  
 Clear custom adhesive interlayer x2 plies  
 SD1000 Signal Attenuation Film x1 ply  
 5 Individual layers make up the SMARTGARD-SD1000/0516-MAK composite product

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. NO razor blades, scrapers, or squeegees.

Additional Optional Product Features:

3M™ VHB™ Acrylic Foam Tape For Non-Mechanical Adhesion  
 Self Adhering Chrome Finish Corner Edge Frame

## MANUFACTURER INFORMATION

## STANDARDS

ASTM D638 for Ultimate Tensile Strength  
 ASTM D790 for Flexural Strength  
 ASTM C1349 for Laminate Quality  
 ASTM D3763 Instrumented Impact

**LTI SMART GLASS, INC.**  
 PITTSFIELD, MA +1.413.637.5001  
 LENOX, MASS. +1.413.637.5001

## WARRANTY

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