

PRODUCT DATA SHEET

SMARTGARD GCPHG2016 SECURITY GLAZING

(MAKROLON® HYGARD CG750 Core)

PRODUCT #: GCPHG2016

DESCRIPTION:

A symmetrical composite of two 3/16" clear or tinted glass outer lites, clear adhesive interlayer's, and a high quality MAKROLON® HYGARD CG750 laminated polycarbonate core. All AIT security products are custom manufactured to be utilized in secure environments where consistent quality and optimum optical clarity are priorities.

MAKROLON® HYGARD CG750 sheet is a three-ply laminated polycarbonate constructed with two I/8" and one I/2" layer of MAKROLON® polycarbonate sheet bonded by an adhesive interlayer. MAKROLON® HYGARD CG750 sheet satisfies the requirements of ASTM F1915-Grade I.

FEATURES:

- Makrolon Hygard Core
- Attack resistant (60 min)
- Ballistic properties (low spall)
- Glass on interior and exterior surfaces.

CONSTRUCTION:	PERFORMANCE DATA:				
	Max Dimension: 60" x 96" (standard)				
.187" Annealed or Heat-Treated Glass ** .050" Bonding Interlayer	Thickness:		1.26"		
	Thickness Tolerance:		1.218" to 1.302"		
	Weight: 10.47 Lbs. / Square			uare Foot	
.118" Uncoated Polycarbonate Sheet					
.025" Bonding Interlayer .500" Uncoated Polycarbonate Sheet .025" Bonding Interlayer .118" Uncoated Polycarbonate Sheet	Attack Rating:		ASTM F1915-03 Grade I (60-minute attack)		
			HP White TP-0500.03 Level III Forced Entry		
	WMFL Level II (60 minute)				
	Ballistic Rating:		UL752 - 9mm / .38 Special / .357 - (3 shot)		
	No bullet penetration & Low Spall				
.050" Bonding Interlayer		ı	T		
.187" Annealed or Heat-Treated Glass **	U-VALUE	SHGC	LIGHT TRANS.	SHADING COEFFICIENT	RELATIVE HEAT GAIN
	.62	.68	.70	.78	163.56
	*Calculated using LRL Window Software				

*Calculated using LBL Window Software

COMPLIANCES

- ASTM C1036 Standard Specification Flat Glass
- ASTM C1048 Standard Specification-Heat Treated Glass
- ASTM C1349 Standard Specification-Flat Glass Clad PC
- ANSI Z97.1 Safety Materials Used in Buildings
- CSPC16 CFR1201 Cat 1 & 2 for Impact
- Made from UL 972 Listed Polycarbonate Sheet

INSTALLATION SPECIFICATIONS

AIT strongly suggests the use of a suitable structural security framing with an appropriate protection rating. Allow for a minimum of a (1) inch edge engagement in the frame with sufficient rabbet depth to allow for expansion (approximately 1/16"/FT). Only use sealants and gaskets that are compatible with polycarbonate. Remove protective masking when installation is complete and before prolonged exposure to sunlight, weather, and moisture.

ADD-ON OPTIONS & ADDITIONAL INFO

Additional options include: Pilkington Mirropane®, Hard Coated Low E, (Wire Glass-Fire Rated-Ref GCPFR0850), Air-Gap Units, Insulated Glass Units, Signals Defenses SD1000 & SD2500 RF/IR Barrier Films, LTI Electrified Switchable Privacy Glass (Smart Glass), and Graphics inside the laminate (Smart Designs).

* Values referenced are for clear product. Tinted glass with translucent bonding interlayers are available, minimums may apply. When specifying tinted or translucent SMARTGARD laminated polycarbonate and/or glass clad polycarbonate contact AIT for details on availability and minimums.

**All AIT SMARTGARD glass-clad polycarbonate products meet certification with annealed glass.



v2018.07.17

FOR MORE INFORMATION, PLEASE CONTACT:

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