

PRODUCT DATA SHEET

SMARTGARD SECURITY GLAZING GCPHGIII6 - MAKROLON® HYGARD CG375 Core

DESCRIPTION:

PRODUCT #: GCPHG1116

A symmetrical composite of two 1/8" clear or tinted glass outer lites, clear adhesive interlayers, and a high quality MAKROLON® HYGARD CG375 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 CG375 sheet is a two-ply laminated polycarbonate constructed with two 3/16" layers of MAKROLON® polycarbonate sheet bonded by an adhesive interlayer. MAKROLON® HYGARD CG375 sheet satisfies the requirements of ASTM F1915-Grade 3.

FEATURES:

- Makrolon Hygard Core
- Attack resistant (20 min)
- Ballistic properties (low spall)
- Glass on interior and exterior surfaces.

CONSTRUCTION:	PERFORMANCE DATA:				
Attack side / Outboard / Exterior	Max D	imension: 6	60" × 96" (standard)		
125" Annual day User Strengthened Class**			(Larger sizes may be available – contact us)		
.125" Annealed or Heat-Strengthened Glass**	Nominal Thickness:		0.729"		
.050" Bonding Interlayer	Thickness Tolerance:		0.705" to 0.753"		
.177" Uncoated Polycarbonate Sheet	Weight:		6.24 Lbs. / Square Foot		
.025" Bonding Interlayer	Attack Rating:		ASTM F1915 Grade 3 (20 min attack)		
.177" Uncoated Polycarbonate Sheet			HP White TP-0500.03 Level II Forced Entry		
.050" Bonding Interlayer	Ballistic Rating:		ASTM F1233 Class 2.8 Sequence 16; HP White TP-0500.03		
.125" Annealed or Heat-Strengthened Glass**			9mm/.38 Special (3 shot)		
			No bullet penetration / Low Spall		
	U-VALUE	SHGC	VISUAL LIGHT TRANS.	SHADING COEFFICIENT	RELATIVE HEAT GAIN
	.73	.73	.81	.83	176.20
	*Calculated using LBL Window Software v7.6.4				
Protection side / Inboard / Interior			0		
ł	COMPLIAN	ICES:			
ASTM C1036 – Standard Specification – Flat Glass ASTM C1172 – Standard Specification for Laminate ASTM C1072 – Standard Specification for Laminate			ANSI Z97.1 - Sat Made from UL 9		
ASTM C1048 - Standard Specification-Heat Treate					
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:					
Some additional combination options may include: • Insulated glass units with • Tinted glass air or argon gas fills • Textured glass • Spandrel glass • Smart Glass – instantly switchable privacy glass • Various low-e coatings • Mirropane one-way • Logos or signage in glass • Anti-eavesdropping Signals Defense • Varied thicknesses • Fire rated glass • Custom designs & make-ups					
Contact an AIT representative for all possible options, or custom makeups.					



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MANUFACTURED BY: THE AIT GROUP

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