



PREMIUM COATINGS & MANUFACTURING

FUSIONITE™

CGII



BEST IN CLASS WEATHERABLE HARDCOATED POLYCARBONATE

FUSIONITE CGII IS A WEATHERABLE HARDCOAT OFFERING THE BEST WEATHER (UV) RESISTANCE PERFORMANCE IN THE INDUSTRY FOR ONE OR TWO SIDED APPLICATION ON POLYCARBONATE SHEET OR MOLDED COMPONENTS.

THIS PRODUCT IS IDEAL FOR DEMANDING VERTICAL AND HORIZONTAL APPLICATIONS. IT ALSO MEETS REQUIREMENTS FOR IMPROVED SAFETY, REDUCED WEIGHT, ABRASION RESISTANCE, CHEMICAL RESISTANCE AND OUTSTANDING LONG-LASTING OUTDOOR WEATHERING PERFORMANCE.

AVAILABLE ON POLYCOOL MATERIAL ALLOWING FOR NATURAL LIGHT PLUS HEAT REDUCTION

TYPICAL APPLICATIONS

ARCHITECTURAL GLAZINGS • AUTOMOTIVE/EV • BUS & RAIL CARS
HEAVY EQUIP/AGRICULTURE CABS • FORESTRY & SEVERE DUTY VEHICLES
MOTORCYCLE/ATV/UTV • MARINE • eVTOL





TECHNICAL DATA

TYPICAL PROPERTIES - CGII HARDCOATED ULTRA WEATHERABLE POLYCARBONATE

PROPERTY	TEST METHOD	UNITS	VALUES
PHYSICAL			
Light Transmission, Clear @ 0.118"	ASTM D 1003	%	92
Light Transmission, Green @ 0.118"	ASTM D 1003	%	70
Light Transmission, Gray @ 0.118"	ASTM D 1003	%	50
Light Transmission, Bronze @ 0.118"	ASTM D 1003	%	50
Light Transmission, Dark Gray @ 0.118"	ASTM D 1003	%	18
Taber Abrasion Delta Haze 500 Cycles	ASTM D 1044	%	<3
Falling Sand	ASTM D 968	%	<10
Wiper Abrasion	ISO 5685	%	<4
20000 Cycles using an Aqueous Dust Suspension #0000 Steel Wool	FMVSS 108		No Visual Scratches
CHEMICAL			
Resistance to a variety of automotive fluids including Gasoline, Kerosene, Soap, Denatured Alcohol, Antifreeze, Sulfuric Acid (0.1N), Urea, Diesel Fuel, Brake Fluid, Transmission Fluid, Bug and Tar Remover	FCA LP-463PB-31-01	Pass / Fail	Pass
	ASTM G 155	Pass / Fail	Pass
		Pass / Fail	Pass
UV STABILITY			
Resistance to UV Exposure	ANSI-Z26.1	Pass / Fail	Pass
Florida 5° South, Clear, After 5 years	ASTM D1435	%H/YI	2.1/1.8
Accelerated weathering (15,000 kJ), Clear	ASTM G155	%H/YI	<8/<2
Tinted frit part; 5 years Florida equivalent	Modified ASTM D7869		Pass
COMPLIANCE			
DOT ANSI Z26.1-1996	Items A55/7		



FRIT AVAILABILITY: FUSIONITE™ PRODUCTS ARE OFFERED WITH CUSTOMIZABLE PRINT FRIT OPTIONS, ALLOWING FOR INNOVATIVE INSTALLATION METHODS WHICH ELIMINATE COMMON THREADED HARDWARE, CLIPS AND GLAZING CHANNELS. THESE PRODUCTS CAN PROVIDE A DIRECT REPLACEMENT FOR FRITTED GLASS.

The data listed is based on average reporting information and therefore should not be considered as the sole supporting information for specification purposes. Testing in individual applications is highly suggested before specifying this, or any products offered by Five Star Fabricating.