



PREMIUM COATINGS & MANUFACTURING

# FUSIONITE™

CGIII



## BEST IN CLASS ABRASION RESISTANT HARDCOATED POLYCARBONATE

FUSIONITE CGIII OFFERS AS2 ABRASION RESISTANCE AND WEATHERABILITY FOR ONE OR TWO SIDED APPLICATION ON POLYCARBONATE SHEET OR MOLDED COMPONENTS. THIS PRODUCT MEETS REQUIREMENTS FOR SUPERIOR ABRASION RESISTANCE, LONG-LASTING OUTDOOR WEATHERING PERFORMANCE, REDUCED WEIGHT, IMPROVED SAFETY AND CHEMICAL RESISTANCE.

AVAILABLE ON POLYCOOL MATERIAL ALLOWING FOR NATURAL LIGHT PLUS HEAT REDUCTION

### TYPICAL APPLICATIONS

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





# TECHNICAL DATA

## TYPICAL PROPERTIES - CGIII HARDCOATED ULTRA ABRASION POLYCARBONATE

PROPERTY	TEST METHOD	UNITS	VALUES
<b>PHYSICAL</b>			
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 1000 Cycles	ASTM D 1044	%	<2
Falling Sand	ASTM D 968	%	<8
Wiper Abrasion 20000 Cycles using an Aqueous Dust Suspension	ISO 5685	%	<2
#0000 Steel Wool	FMVSS 108		No Visual Scratches
<b>CHEMICAL</b>			
Resistance to a variety of automotive fluids including Gasoline, Kerosene, Soap, Denatured Alcohol, Anti-freeze, Sulfuric Acid (0.1N), Sodium Hydroxide (0.1N), Urea, Diesel Fuel, Brake Fluid, Transmission Fluid, Bug and Tar Remover	ASTM-Z26.1	Pass / Fail	Pass
	FCA LP-463PB-31-01	Pass / Fail	Pass
		Pass / Fail	Pass
<b>UV STABILITY</b>			
Resistance to UV Exposure	ANSI-Z26.1	Pass / Fail	Pass
<b>COMPLIANCE</b>			
DOT ANSI Z26.1-1996	Items AS4/4A/5/6/7		
FRA 49CFR Part 238	Appendix B ASTM E 162 & 662		
FRA 49CFR Part 223	Ballistic & Impact Type I & II		



**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.