



PREMIUM COATINGS & MANUFACTURING

FUSIONITE™

CGI



WEATHERABLE HARDCOATED POLYCARBONATE

FUSIONITE CGI IS A PREMIUM WEATHERABLE HARDCOAT WITH EXCEPTIONAL CLARITY AND DURABILITY FOR ONE OR TWO SIDED APPLICATION ON POLYCARBONATE SHEET OR MOLDED COMPONENTS. THIS PRODUCT MEETS REQUIREMENTS FOR IMPROVED SAFETY, REDUCED WEIGHT, ABRASION RESISTANCE, CHEMICAL RESISTANCE AND PROVEN OUTDOOR WEATHERING PERFORMANCE.

AVAILABLE ON POLYCOOL MATERIAL ALLOWING FOR NATURAL LIGHT PLUS HEAT REDUCTION

TYPICAL APPLICATIONS

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





TECHNICAL DATA

TYPICAL PROPERTIES - CGI HARCOATED 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 After Cycles	ASTM D 1044	%	<4
Taber Abrasion Haze 500 Cycles			<10
Falling Sand	ASTM D 968	%	<4
Wiper Abrasion	ISO 5685	%	
2000 Cycles using an Aqueous Dust Suspension			
#0000 Steel Wool	FMVSS 108		No Visual Scratches
Water Immersion @ 65 °C (10 Days)		Adhesion Loss	None
CHEMICAL			
Resistance to Gasoline, Kerosene, Soap, Denatured Alcohol, Anti-freeze, Sulfuric Acid (0.1N), Sodium Hydroxide (0.1N)	ASTM-Z26.1	Pass / Fail	Pass
UV STABILITY			
Resistance to UV Exposure	ANSI-Z26.1	Pass / Fail	Pass
Florida 45° South, Clear, After 4 years	ASTM D1435	%H/YI	<4/<4
COMPLIANCE			
DOT ANSI Z26.1-1996	Items AS4/4A/5/6/7		



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.