

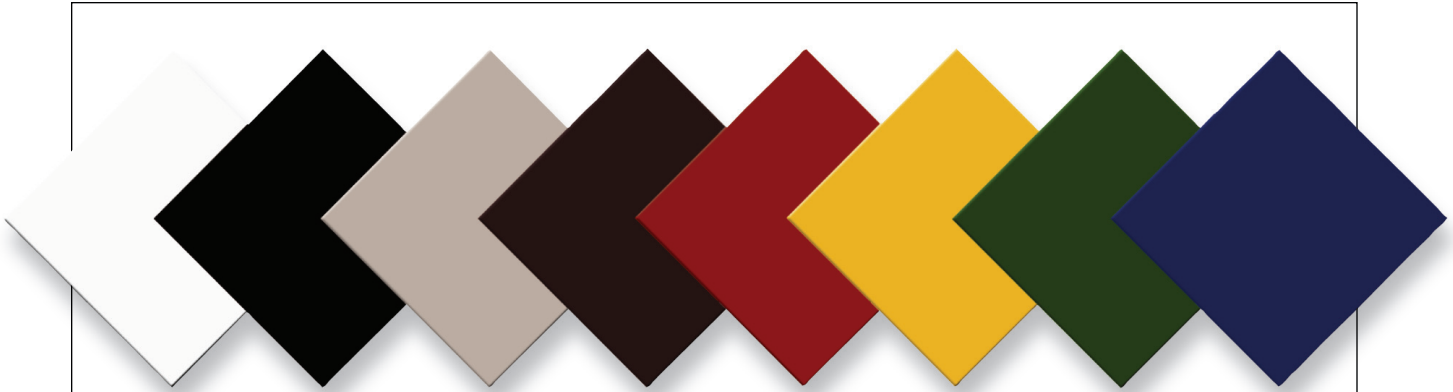


**GRAPHIC-AL™ LT**

MITSUBISHI PLASTICS COMPOSITES AMERICA, INC.

PRODUCT INFORMATION

NOTE: CUSTOM SIZES AND COLORS ARE ALSO AVAILABLE UPON REQUEST.



GRAPHIC-AL™ LT OFFERS EXCEPTIONAL WORKABILITY, DURABILITY AND VIRTUALLY UNLIMITED OPTIONS TO DESIGNERS AND FABRICATORS OF POP, FREE-STANDING DISPLAYS, KIOSKS, INTERIOR AND EXTERIOR SIGNAGE, BILLBOARDS AND MORE. IT IS A VERSATILE AND REVERSIBLE ALUMINUM COMPOSITE MATERIAL THAT OFFERS AN EXCELLENT FLATNESS, HIGH RIGIDITY AND LIGHTNESS OF WEIGHT IN A VARIETY OF COLORS.

APPLICATIONS

- INDOOR SIGNAGE AND DISPLAYS
- OUTDOOR SIGNAGE AND DISPLAYS
- ALTERNATIVE OF COATED ALUMINUM SHEETS

COLORS & THICKNESS

VLT WHITE/VLT WHITE.....	2,3,4MM
PBK BLACK/VLT WHITE.....	3MM
MICA MPS SILVER/PBD BRONZE.....	3MM
PRD RED/PYE YELLOW.....	3MM
PGR GREEN/PBL BLUE.....	3MM



NOTE: CUSTOM COLORS ARE ALSO AVAILABLE UPON REQUEST.

**GRAPHIC-AL™** FOR SIGNAGE THAT'S OUT OF THIS WORLD!

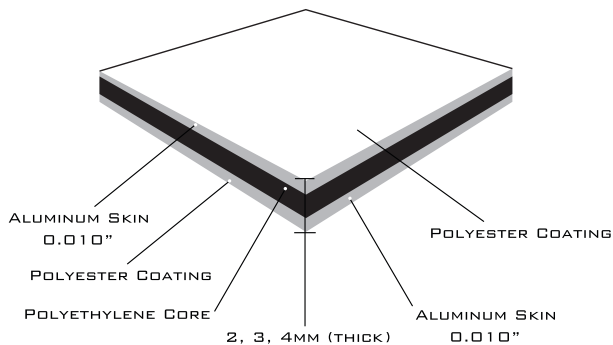
[www.graphic-al.com](http://www.graphic-al.com)

## BENEFITS

- **EXCELLENT FLATNESS:** BECAUSE OF ITS CONTINUOUS LAMINATING PROCESS, GRAPHIC-AL™ LT IS A FLAT PANEL WITHOUT BUCKLES, EDGE WAVES AND OVERALL WARPING.
- **CONSISTENT COLOR:** GRAPHIC-AL™ LT HAS A PAINT FINISH WITH CONSISTENT COLOR PRODUCED IN OUR CONTINUOUS COIL COATING LINE.
- **HIGH RIGIDITY:** GRAPHIC-AL™ LT OFFERS HIGH RIGIDITY IN A LIGHTWEIGHT MATERIAL. IT IS EQUIVALENT TO 2.2MM THICK ALUMINUM AND 6.3MM THICK ACRYLIC SHEETS IN RIGIDITY.
- **LIGHTWEIGHT:** GRAPHIC-AL™ LT 3MM IS ONLY 0.76 PSF WHICH IS EQUIVALENT TO 1.4MM ALUMINUM SHEET AND 3.1MM ACRYLIC SHEET.
- **WORKABILITY:** GRAPHIC-AL™ LT IS EASY TO CUT, GROOVE, BEND AND ASSEMBLE WITH REGULAR MACHINES AND TOOLS WIDELY USED IN THE SIGN INDUSTRY.

## MATERIAL COMPOSITION

GRAPHIC-AL™ LT IS COMPOSED OF TWO SKINS OF 0.010" THICK ALUMINUM AND A POLYETHYLENE CORE. BOTH TOP AND BACK SURFACES ARE POLYESTER COATINGS PRODUCED IN OUR CONTINUOUS COIL COATING LINE. BOTH SIDES ARE COVERED WITH TRANSPARENT PROTECTIVE FILMS.



## PANEL DIMENSION

THICKNESS: 2, 3, & 4MM

SIZE: 48"X96"

NOTE: CUSTOM SIZES ARE AVAILABLE UPON REQUEST. PLEASE CHECK WITH CUSTOMER SERVICE FOR AVAILABILITY. COLORS MIGHT CHANGE WITHOUT NOTICE DEPENDING ON PROGRAM.

## PRODUCT TOLERANCE

WIDTH: ± 0.08" (2MM)

LENGTH: ± 0.16" (4MM)

THICKNESS: ± 0.008" (0.2MM)

BOW: MAXIMUM 0.5% OF LENGTH AND/OR WIDTH

SQUARENESS: MAXIMUM 0.2" (5MM)

GRAPHIC-AL™ LT IS SUPPLIED WITH CUT EDGES.

THERE IS NEITHER DISPLACEMENT OF THE ALUMINUM SHEET NOR PROTRUSION OF THE CORE.

## CHARACTERISTICS

### PROPERTIES

THE PANEL WEIGHT IS ALMOST EQUIVALENT TO 1.4MM THICK ALUMINUM AND 3.1MM THICK ACRYLIC SHEETS.

THE THERMAL EXPANSION IS ALMOST EQUIVALENT TO ALUMINUM AND NEARLY ONE THIRD ACRYLIC SHEETS.

UNIT	THICKNESS	PANEL WEIGHT	THERMAL EXPANSION
	MM	PSF	X10 <sup>-6</sup> IN/IN/°F
GRAPHIC-AL™ LT	2MM	0.57	13
	3MM	0.76	
	4MM	0.95	
ALUMINUM SHEET	1.4MM	0.77	13
ACRYLIC SHEET	3.1MM	0.76	28-50

NOTE: THERMAL EXPANSION RATE 13X10<sup>-6</sup>IN/IN/°F MEANS THAT THE ELONGATION/CONTRACTION IS 0.06" PER 48" PER 100°F.

### RIGIDITY (BENDING STRENGTH)

GRAPHIC-AL™ LT 3MM IS EQUIVALENT TO 2.2MM THICK ALUMINUM AND 6.3MM THICK ACRYLIC SHEETS IN RIGIDITY.

		THICKNESS	PANEL WEIGHT	WEIGHT RATIO
	GRAPHIC-AL™ LT	2MM	0.57PSF	1.0
		3MM	0.76PSF	1.0
		4MM	0.95PSF	1.0
THICKNESS WITH THE SAME RIGIDITY	ALUMINUM SHEET	1.7MM	0.97PSF	1.7
		2.2MM	1.22PSF	1.6
		2.8MM	1.52PSF	1.6
	ACRYLIC SHEET	4.6MM	1.14PSF	2.0
		6.3MM	1.52PSF	2.0
		7.7MM	1.90PSF	2.0

NOTE (HOW TO READ THE ABOVE TABLE): GRAPHIC-AL™ LT 3MM IS EQUIVALENT TO 2.2MM THICK ALUMINUM SHEET IN RIGIDITY. THIS ALUMINUM SHEET WEIGHS 1.6 TIMES GRAPHIC-AL™ LT.

### FLAMMABILITY CHARACTERISTICS

GRAPHIC-AL™ LT MEETS THE FOLLOWING STANDARDS. UL 94 V-0 AND UL 879 APPROVED, AS AN ELECTRIC SIGN COMPONENT CLASS 1 OR CLASS A FIRE RATED, AS A BUILDING MATERIAL.

FOR MORE INFORMATION CALL  
1.800.422.7270