

This product is available from ATI Decorative Laminates in the following thickness sizes (inches):

Nominal Thickness Gauge	Minimum Allowance Gauge	Maximum Allowance Gauge
1/4" (6.3 mm)	0.196"	0.306"
3/8" (9.5 mm)*	0.304"	0.434"
1/2" (12.7 mm)	0.412"	0.562"
3/4" (19.0 mm)	0.618"	0.798"
1.0" (25.4 mm)	0.850"	1.090"

*Add +/- 1/32" (+/-0.8 mm) to the above tolerance for hint textured sheets.

The product is manufactured by printing an image using latex ink. The printed side is then protected by either a vinyl opaque backer, or a clear coated backer.

Recommended Care and Maintenance for Fusion Acrylic Products:

• Soap and water for cleaning (no abrasive chemicals)

The technical details for the Acrylic are stated below:

Prope		ASTM	Typical Val ue	
		Method	(0.25 0" Thick ness)(h>	
Mechanical n	Specific Gravity	01 79 2	1.19	
	Tensile Strength	D 638	10,000 psi (69 M Pa)	
	Elongation, Rupture		4.5%	
	Modulus of Elasticity		400,000 psi (.2800 M P,a)	
	Flexural Strength	D790	17,000 psi 117 M Pa)	
	Modulus of Elasticity		480,000 psi (3300 M Pa),	
	Compressive Strength (Yield	D 695	17,000 si 117 M Pa	
	Impact Strength		0.4 ft. lbs/in. o'f notch	
	lzod Milled Notch	, o 2 5e	<u>(21.6</u> <i>Jim</i> of notc,h)	
	Rockwell Hardness	D785	M-93	
Barool	Hardness <u>o 2</u> , <u>5a3</u>	48		
Optical	Refractive Index D 542		Light Transmission , Total 0, 1003	



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92% Forming Temperature

Thermal

rox. 300 °F (149"C)

Deflection Temperature

under load, 264 si			D648	195"1F 01 ° c	
Vicat Soften in Point			D 1525	220"1F 11 05 "C	
Maximum Recomme	ended Continu	ous			
Service Temperature	2		1	160"F c 71"C)	
0.125" thickness			o, s9s		
Coefficient of					
The rmal Conductivi	The rmal Conductivi		Cenco-Fitch		
Flammabiltty, Burnir	ng Rate				
000040 in/in - " F				0.119 w/m•K	
.000072 m/m • 0 C)				1.0 in/min. 25 n	nm/min. ,
3 BTU/(Hr) (Sq. Ft.) ("Fl in.)					
		01	1929	850"F 4:55"C	
pecific Heat @ n	°F			0.35 BTU/{lb.) (°f	=)
				(1470J Kg•K)	

Smoke Density Rating D 2843 4.8%

Electrical Dielectric Strength Short Time (0.125) 430 volts/mil (17 KV/mm),



60 Hertz	D 150		3.6	
1000 Hertz			3.3	
1000000 Hertz			2.8	
Dissipation Factor				
60 Hertz	D 150		0.06	
1000 Hertz			0.04	
1000000 Hertz			0.02	
Volume Resistivity	1	D 257		10 ¹ 8ahm-cm
Surface Resistivity	/	D 257		10 ¹⁵ ohms

Water Absorption

24 hrs@ 73°F D 570 0.2'%

Odor None

Taste None

(a) Typical values; should not be used for specification purposes,

(b) Values shown are for 0.250" thickness. Some values will change for continuous service, or 190"F for short intervals with thickness or pigmentation.

(c) it is recommended 1hat temperatures not exceed 160°



PRODUCT DATA SHEET

Fusion Acrylic When acrylic and print is protected by a vinyl opaque backer, these are the technical details:

Property	Typical Values	Test Method
Thickness, inches(µm)		
Face plus adhesive	0.0055 (144)	
Face, adhesive & liner	0.0120 (305)	
Quick Tack lb. /in ² (N/25mm)	3.5 (15.3)	MACtac CTM-25
Stainless Steel		
Peel Adhesion lb./in. (N/25 mm)		PSTC-1
Stainless Steel	4.4 (19)	
- 30 min.	6.0 (26)	
- 24 hrs.	7 2 (32)	
- 24 hrs. Heat Aged 158°F	7.0 (31)	
- 72 hrs.	7.0 (ST)	
Aluminum 72 bro	8.8 (39)	
- 72 IIIS. Powder coated Paint		
- 72 hrs	4.5 (20)	
Dimensional Stability, inches (mm)		MACtac CTM-21
48 hours @ 158°F		(Method D)
MD	0.06 (1.5)	Bonded to aluminum
CD	0.04 (1.02)	
Tensile, lb. /in.(N/15 mm)		ASTM D-882
MD	8.0 (21)	
CD	6.0 (16)	
Elongation, %		
MD	150	
CD	80	
Temperature Range		
Application:	50°F min. (10°C)	
End Use:	-40° to 200°F (-40° to 93°C)	
Surface Burning Characteristics Meets	Class A 15	ASTM E84-01 or ANSI/NEPA 255 or
ANSI NEPA & IFC	50	IFC 8-1
Flame Spread Smoke Density		
	06 00	X Rito Doncitomotor
Opacity	30 - 33	



When acrylic and print is protected by clear coated backer, these are the technical details:

Attributes	
Print odor	Odorless
Special ventilation	None
required	
Cleaning fluids:	Cautionary statement only: Contact with skin and eyes may result in irritation. No
health hazards	"R" phrases.
labels	
Ink health hazards	Cautionary statement only: Contact with skin and eyes may result in irritation. No
labels – general	"R" phrases.
handling	
Flammability/	FP > 93.3C
combustibility	
HAPs free (inks and	None according to EPA Method 311
maintenance fluids)	
VOCs: inks, pre-and	231 g/L – 294 g/L
post-treatments	
VOCs: Maintenance	241 g/L
fluids	