

Versatile and Attractive  
Looks for Designer Creations



**PLEXIGLAS®**  
BY ARKEMA

## Plexiglas® MC Matte

ACRYLIC SHEET

Plexiglas® MC Matte acrylic sheet is a melt-calendared sheet with a surface finish similar to cell cast Plexiglas® G P-95 acrylic sheet. This Plexiglas® MC Matte option allows designers and fabricators to choose a similar surface finish, but with all the attributes of standard Plexiglas® MC acrylic sheet.

This versatile material has many residential, commercial, industrial, and professional uses. Applications may include POP displays, store fixtures, brochure holders, signage, and decorative furnishings.

Plexiglas® MC Matte is available with the matte finish on either one side (Plexiglas® MC Matte) or both sides (Plexiglas® MC Matte – 2 sided) of the sheet.

- **Distinct matte finish diffuses surface reflections and hides imperfections**
- **Resists fingerprints, scratches, and smudges**
- **Lightweight - Half the weight of glass**
- **Weather resistant**
- **Can be easily fabricated and thermoformed**
- **Thickness range from 0.080" – 0.472"**
- **Colors available upon request**

# Plexiglas® MC Matte

ACRYLIC SHEET

## TYPICAL STANDARD PROPERTIES

PROPERTIES	TEST METHOD	UNIT	VALUE
<b>PHYSICAL</b>			
Nominal Thickness for data unless otherwise noted		in	0.236"
Specific Gravity	ASTM D-792	---	1.19
Rockwell Hardness	ASTM D-785	M scale	90
<b>OPTICAL</b>			
Refractive Index (ND @ 73°F)	ASTM D-542	---	1.49
Luminous Transmittance <sup>1</sup>	ASTM D-1003	%	92.0
Specular Gloss at 85°	ASTM D-523	---	< 10.0
<b>MECHANICAL</b>			
Tensile Strength, maximum	ASTM D-638	psi	10,200
Tensile Strength, yield	ASTM D-638	psi	10,200
Tensile Elongation	ASTM D-638	%	4.5
Tensile Modulus of Elasticity	ASTM D-638	psi	450,000
Flexural Strength, maximum	ASTM D-790	psi	15,000
Flexural Modulus of Elasticity	ASTM D-790	psi	450,000
Notched Izod Impact @ 73°F (23°C)	ASTM D-256	ft-lb / in	0.3
Un-notched Charpy @ 73°F (23°C)	ASTM D-256	ft-lb / 0.5"x1" section	7.0
<b>THERMAL</b>			
Deflection Temperature under Flexural Load @ 264psi – unannealed <sup>1</sup>	ASTM D-648	°F	200
Coefficient of Thermal Expansion at 60°F	ASTM E-831	in / in / °F x 10 <sup>-5</sup>	3.6
Coefficient of Thermal Conductivity	ASTM C-177	BTU / (hr)(ft <sup>2</sup> )(°F/in)	1.3
Maximum Recommended Continuous Service Temperature	N/A	°F	170 – 190
Recommended Thermoforming Temperature	N/A	°F	275 – 350
<b>FLAMMABILITY<sup>2</sup> &amp; SPECIFICATION COMPLIANCE</b>			
Self Ignition Temperature	ASTM D-1929	°F	860
Standard Specification for PMMA Acrylic Plastic Sheet	ASTM D-4802	---	Category B-1, Finish 2

Data given are average values and should not be used for specification purposes.

- This property will change with thickness. The value given is for the thickness indicated in the column heading unless otherwise noted.
- Flammability tests are small scale tests and may not be indicative of how materials will perform in an actual situation.

THICKNESS	SHEET SIZE*
0.080"	48" x 96"
0.118"	60" x 96"
0.150"	72" x 96"
0.177"	
0.236"	
0.354"	
0.472"	

Run to size available upon request

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Plexiglas® acrylic plastic is a combustible thermoplastic. Observe fire precautions appropriate for comparable forms of wood and paper. For building uses, check code approvals. Impact resistance is a factor of thickness. Avoid exposure to heat or aromatic solvents. Clean with soap and water. Avoid abrasives.

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