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# ACRYLIC MIRROR SHEET

## TECHNICAL DATA SHEET

### 1. Product Description

Acrylic Mirror Sheet is a lightweight, shatter-resistant reflective material manufactured from high-quality PMMA (Polymethyl Methacrylate).

The mirror effect is achieved through vacuum metallization and protected by a durable back paint coating.

It is widely used as a safer alternative to traditional glass mirrors.

### 2. Product Specifications

Base Material: PMMA (Acrylic)

Thickness: 1.0mm – 6.0mm

Standard Sizes: 1220×2440mm, 1220×1830mm

Density: Approx. 1.19 g/cm<sup>3</sup>

Surface: Mirror finish (one side), Back Painted

Masking: PE film / Kraft paper

Colors: Silver, Gold, Rose Gold, Blue, Green

### 3. Physical & Mechanical Properties

Tensile Strength: ≥ 65 MPa

Flexural Strength: ≥ 90 MPa

Impact Strength: ≥ 15 kJ/m<sup>2</sup>

Vicat Softening Temperature: Approx. 105°C

### 4. Optical Properties

Reflectivity: ≥ 85% (Silver)

High clarity with slight distortion compared to glass mirror

### 5. Back Coating

Type: Protective Back Paint

Function: Prevent oxidation and damage

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### 6. Applications

Advertising signage

Interior decoration

Display stands

Furniture panels

### 7. Storage & Handling

Store in dry environment

Avoid sunlight and high temperature

Keep sheets flat

### 8. Disclaimer

Data are typical values for reference only and not guaranteed specifications.

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### Table of Properties

Values quoted for the properties of acrylic mirror sheet represent averages taken from representative samples and do not constitute specifications.

Information of Acrylic Mirror Sheet	
<b>1. Product Details</b>	
Trade Name	Acrylic Mirror Sheet
Other Names	Plexiglass Mirror Sheet, Textured Acrylic Mirror, PMMA Mirror, Plastic Mirror, etc.
Usage	Sign Design, DIY Project, Home decor, etc.
<b>2. Hazard</b>	
This material is classified as not hazardous under OSHA regulations. Under normal conditions of use, this product will not be expected to create any unusual industrial hazards. Irritating gases/fumes may be given off during burning or thermal decomposition. Contact with hot material will cause thermal burns.	
<b>3. Material</b>	
Composition on Ingredients	1.5% Paint
	<0.1% Aluminum [CAS #7429-90-5]
	>98.5% Polymethyl Methacrylate (PMMA) [CAS #9010-88-2]
<b>4. First Aid Measures</b>	
Inhalation	Transfer the wounded to the fresh air
Skin Contact	If melton material contacts skin, rinse rapidly with cold water and seek medical attention immediately.
Eye contact	Flush eyes with plenty of water for at least 15 minutes and seek medical attention immediately.
Eating	This material is not expected to be absorbed within the gastrointestinal tract, so no need to induction of vomiting.
<b>5. Fire - Fighting Measures</b>	
Suitable Fire Extinguishing	Isolate or remove the burning substance from the surrounding unburned substance.
Specific Fire Hazards	This product is a combustible thermoplastic material.
Special protective equipment for fire fighters	Wear a self-contained breathing apparatus and full protective gear.
<b>6. Accidental Release Measures</b>	
Personal Precaution	Provide adequate ventilation. Wear personal protection equipment. Do not breathe dust.
Environmental Precaution	Not allow to enter soil, waterbodies or drains.
Methods for Cleaning up	Use a mild dish soap, water and a soft cloth to wipe the surface, apply only light pressure. To remove grease, oil, or tar deposits on the material, use hexane, kerosene or aliphatic naphtha.
<b>7. Handling &amp; Storage</b>	
Max. Storage Temperature	80

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Handling	Ensure appropriate exhaust and ventilation at machinery and at places where dust can be generated. Avoid dust formation, and accumulation of static charges. Prohibit sources of spark and ignition, such as smoking. Processing of this product under high temperatures will cause hazardous emissions of vapors, carbon monoxide or carbon dioxide.			
Storage	The masking should not be left on the sheet during storage and fabrication to prevent damage. Keep away from excessive heat, paint over spray and vapors from solvents and other chemicals. The materials should be stored in a clean, dry, and warm area with the original packing intact			
<b>8. Exposure Controls/Personal Protection</b>				
Exposure limits	OSAH		ACGIH	
	PEL	STEL	TLV	STEL
1. Total Aluminum	15mg/m <sup>3</sup>	None	10 mg/m <sup>3</sup>	None
2. Respirable Aluminum	5mg/m <sup>3</sup>	None	5 mg/m <sup>3</sup>	None
Ventilation measure	Provide good ventilation and/or an exhaust system in the work area.			
Respiratory Protection	None required under normal conditions.			
Hand Protection	Canvas or cotton gloves.			
Eye Protection	Safety glasses with side shields (ANSI Z87.1 equivalent).			
Skin & body protection	Wear suitable protective clothing and boots.			
Other protective measures	Avoid contact of molten material with skin. Do not inhale dust particles or vapors. Keep away from sources of ignition. Wash hands before breaks and after work.			
<b>9. Physical &amp; Chemical Properties</b>				
Physical state	Solid mirror sheets			
Color	Clear to opaque			
Odor	No			
pH	No			
Melting Point	230			
Decomposition Temperature	/			
Flash Point	365			
Explosion Limits	445			
Vapor Pressure	/			
Vapor Density	/			
Relative Density	1.2g/cm <sup>3</sup>			
Solubility	Insoluble			
<b>10. Stability &amp; Reactivity</b>				
Stability	Stable. Hazardous polymerization does not occur.			
Conditions to Avoid	Protect from excessive heat. Keep away from sources of ignition and heat. Avoid dust formation.			
Materials to Avoid	None			

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Hazardous Decomposition Products	Thermal decomposition may emit vapors, carbon monoxide, or carbon dioxide.
<b>11. Toxicological Information</b>	
This product should not be harmful under normal conditions of use.	
Inhalation	Unlikely to be harmful by inhalation under ambient temperature. Inhalation of vapors from heated product can cause nausea, headache, dizziness as well as irritation of lungs, nose, and throat.
Skin contact	Possible skin irritation. Contact with molten material can result in burns.
Ingestion	Unlikely to be harmful by ingestion under ambient temperature.
Eye contact	Vapors from heated product can irritate the eyes.
Carcinogenicity	Non-carcinogenic.
<b>12. Ecological Information</b>	
This product is a solid, inert product with low volatility, and is essentially insoluble in water.	
Ecotoxicity	This product should have low toxicity to aquatic and terrestrial organisms.
Mobility	Due to the solid nature of this product, it should have low mobility in soil.
Persistence & Degradability	This product is non-biodegradable.
Bioaccumulation	This solid product has a low potential for bioaccumulation.
Effect in Sewage Plants	May be separated mechanically.
<b>13. Disposal Considerations</b>	
Waste disposal should be in accordance with all federal, state and local environmental laws and regulations.	
<b>14. Transport Information</b>	
Not subject to national and international regulations on the transport of dangerous goods.	
<b>15. Regulatory Information</b>	
OSHA Hazard Communication	Non-Hazardous
Toxic Substances Act	Listed
CERCLA Hazardous Substances	None
SARA Section 311/312	Non-Hazardous
SARA Section 313 Toxic Chemicals (40 CFR 372.65)	None
RCRA Hazardous Wastes (40 CFR 261)	When this product becomes a waste, it's identified as a solid but not hazardous waste under RCRA criteria(40 CFR Part 261)
California Proposition 65	Warning: This product can expose you to Ethyl Acrylate, which is known to the State of California to cause cancer.
<b>16. Other Information</b>	
Values quoted for the properties of acrylic mirror sheet represent averages taken from representative samples and do not constitute specifications.	