

# CAST ACRYLIC SHEETS



比特美



力美有機玻璃(東莞)有限公司  
LEI MEI ACRYLIC (DONGGUAN) CO., LTD.



## COMPANY INTRODUCTION

Founded in year 2000, Lei Mei Acrylic (Dongguan) Co., Ltd. is located in the centre of the economic region in Dongguan, China. Our company specializes in the manufacturing of premium grade cast acrylic sheets.

### PT GLAS®

PT GLAS® is the registered trademark of Lei Mei's premium grade cast acrylic sheets and it has been UL certified.

PT GLAS® is widely known in the industry for its superior grade and sets the standard for quality for cast acrylic sheets around the world. It provides a cost-effective solution for just about every application where cast acrylic sheets are required.

Our clients are well established manufacturers of furnitures, top end electronic and advertising products.

## FULLY COMPUTERIZED PRODUCTION PROCESS

Our company utilizes a sophisticated computer and electronic system to monitor the entire production process to ensure all the sheets are manufactured according to the highest standard. At the beginning of the production line, every single sheet is assigned an unique lot number for traceability and at the end of the production line, every single sheet is checked for quality and defects by our highly-trained quality control team. We are extremely proud to be the only one casting acrylic sheets manufacturer to utilize this process – resulting in a product with consistent quality standard.

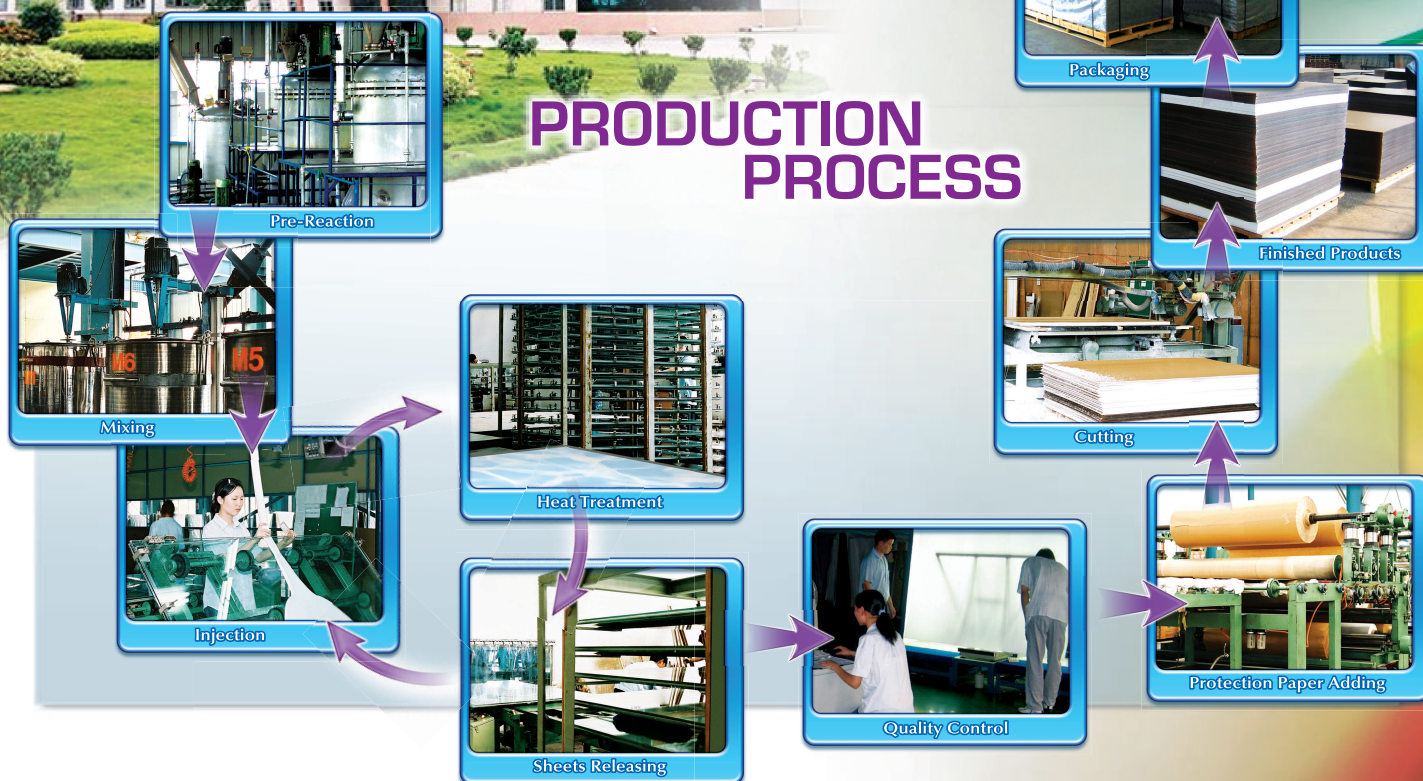
## PERFECTION IN QUALITY

"Perfection in Quality" is our company mission and objective. We constantly strive to improve the consistency and quality by tightening quality control on every stage of our production process. Combining it with (1) technological improvement, (2) modern, state-of-the-art machinery, and (3) top quality human resources management, the result is unsurpassed, top-notch products.

Please feel free to contact us for future business cooperation. Our team is ready to assist with your enquiries and to serve your customized needs.



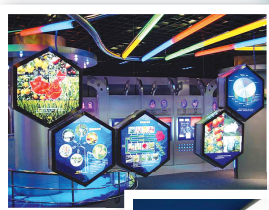
## PRODUCTION PROCESS





## SUPERIOR PROPERTIES OF PT GLAS®

- High optical clarity
- Consistent, uniform thickness
- Excellent resistance to sunlight, in both high and low temperatures
- Greater impact strength than glass
- High rigidity and long durability
- Extensive and diverse range of applications. Can be easily heat-formed, fabricated, engraved, finished, decorated or other complicated procedures
- Available in a broad range of beautiful colors, a complete range of thicknesses and sizes. Customized colors, thicknesses and sizes could be ordered and specially manufactured.



## APPLICATIONS

- Signboards
- Electronic products
- Furnitures and store fixtures
- Aquariums
- Lenses and lighting fixtures
- Displays and interior decoration
- Skylights and building materials



## PHYSICAL PROPERTIES

Properties		Testing Method		Value	Unit
<b>Specific Gravity</b>		D792	ASTM	1.19	
<b>Mechanical</b>	Strength at Maximum Load	D638	ASTM	750	kgf/cm <sup>2</sup>
	Tensile Modulus	D638	ASTM	32,800	kgf/cm <sup>2</sup>
	Elongation at Break	D638	ASTM	2.88	%
	Flexural Strength	D790	ASTM	1,120	kgf/cm <sup>2</sup>
	Flexural Modulus	D790	ASTM	30,369	kgf/cm <sup>2</sup>
	Impact Strength	D256	ASTM	1.81	kgf.cm/cm
	Rockwell Hardness	D785	ASTM	99.6	M scale
	Compressive Strength at Yield	D695	ASTM	1,140	kgf/cm <sup>2</sup>
	Shear Strength	D732	ASTM	653	kgf/cm <sup>2</sup>
<b>Optical</b>	Light Transmittance	D1003	ASTM	92.5	%
	Haze	D1003	ASTM	0.124	%
	Yellow Index	E313	ASTM	-1.06	
	Refractive Index			1.4528	
<b>Thermal</b>	Heat Deflection Temperature	D648	ASTM	101	°C
	Vicat Softening Temperature	D1525	ASTM	121	°C
	Coefficient of Linear Thermal Expansion	D696	ASTM	5.07×10 <sup>-5</sup>	°C
	Thermal Conductivity	C177	ASTM	0.201	W/m.k
	Horizontal Burning	D635	ASTM	meet requirement	
	Forming Temperature			140-170	°C
	Maximum Recommended Continuous Service Temperature			71	°C
<b>Electrical</b>	Dielectric Strength	D149	ASTM	18.3	KV/mm
	Arc Resistance	D495	ASTM	>600	V
<b>Miscellaneous</b>	Water Absorption (24 hours)	D570	ASTM	0.265	%



## CHEMICAL PROPERTIES

ACID RESISTANCE	Acetic acid 50%	no attack
	Hydrochloric acid 30%	no attack
	Nitric acid 20%	no attack
	Sulfuric acid 30%	no attack
	Caustic acid 50%	no attack
SOLVENT & MISCELLANEOUS RESISTANCE	Ammonia 28%	no attack
	Chlorine water	no attack
	Butyl alcohol	no attack
	Carbon tetrachloride	no attack
	Hexane	no attack
	Octane	no attack
	Petroleum (with less aromatics content)	no attack
	Chloroform	dissolution
	Acetone	dissolution
	Benzene	craze
	Toluene	craze
	Ethyl Acetate	dissolution
	Isopropyl Alcohol	craze, whitening

## SIZES AVAILABLE

Size (mm)	Q	L0	S	L1	T	B	HS	H	C	FA	K0	K	R	M
	48" x 72" 1220 x 1830	48" x 96" 1220 x 2440	50" x 74" 1270 x 1880	50" x 100" 1270 x 2540	36" x 72" 915 x 1830	39 $\frac{3}{8}$ " x 78 $\frac{5}{8}$ " 1000 x 2000	41 $\frac{3}{8}$ " x 70 $\frac{7}{8}$ " 1050 x 1800	41 $\frac{3}{8}$ " x 84 $\frac{5}{8}$ " 1050 x 2150	53 $\frac{1}{8}$ " x 78 $\frac{5}{8}$ " 1350 x 2000	61 $\frac{7}{8}$ " x 96" 1570 x 2440	50" x 120" 1270 x 3050	63" x 122" 1600 x 3100	72" x 96" 1830 x 2440	81" x 121 $\frac{5}{8}$ " 2060 x 3090
Thickness (mm) (inch)														
1.0 0.039	•				•									
1.5 0.059	•		•											
2.0 0.079	•	•	•	•	•	•	•	•	•	•				
2.5 0.099	•	•	•	•	•	•	•	•	•	•				
2.8 0.110	•	•	•	•	•	•	•	•	•	•				
3.0 0.118	•	•	•	•	•	•	•	•	•	•	•	•	•	•
3.5 0.138	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4.0 0.158	•	•	•	•	•	•	•	•	•	•	•	•	•	•
4.5 0.177	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5.0 0.197	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5.5 0.217	•	•	•	•	•	•	•	•	•	•	•	•	•	•
6.0 0.236	•	•	•	•	•	•	•	•	•	•	•	•	•	•
7.0 0.275	•	•	•	•	•	•	•	•	•	•	•	•	•	•
8.0 0.315	•	•	•	•	•	•	•	•	•	•	•	•	•	•
9.0 0.354	•	•	•	•	•	•	•	•	•	•	•	•	•	•
10.0 0.394	•	•	•	•	•	•	•	•	•	•	•	•	•	•
12.0 0.472	•	•	•	•	•	•	•	•	•	•	•	•	•	•
13.0 0.512	•	•	•	•	•	•	•	•	•	•	•	•	•	•
15.0 0.590	•	•	•	•	•	•	•	•	•	•	•	•	•	•
18.0 0.709	•	•	•	•	•	•	•	•	•	•	•	•	•	•
20.0 0.788	•	•	•	•	•	•	•	•	•	•	•	•	•	•
23.0 0.906	•	•												
25.0 1.000	•	•												
	1220 x 1830	1220 x 2440	1220 x 1220											
30.0 1.181	•	•	•											
32.0 1.260	•	•	•											
35.0 1.378	•	•	•											
38.0 1.496	•	•	•											
40.0 1.575	•	•	•											
50.0 2.000	•	•	•											



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