

**PT. MARGACIPTA WIRASENTOSA**

Cast Acrylic Sheet & PVC Hose Manufacturer



Cert No. ID02/00020

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"Partnership & Quality Beyond Limit"

Cast Acrylic Sheet Thickness Tolerance

| Thickness | | % Tolerance | | |
|-----------|-------|---------------|------------|------------------|
| Inch | Mm | standard size | large size | Extra large size |
| 0.08 | 2 | 12% | | |
| 0.10 | 2.5 | 10% | | |
| 0.12 | 3 | 10% | 14% | 17% |
| 0.16 | 4 | 8% | 12% | 14% |
| 0.20 | 5 | 6% | 10% | 12% |
| 0.24 | 6 | 6% | 10% | 12% |
| 0.31 | 8 | 5% | 8% | 10% |
| 0.39 | 10 | 4% | 6% | 8% |
| 0.47 | 12 | 4% | 6% | 8% |
| 0.59 | 15 | 4% | 6% | 8% |
| 0.71 | 18 | 4% | | |
| 0.79 | 20 | 4% | | |
| 0.98 | 25 | 4% | | |
| | above | 4% | | |

*Note: Large size = 1880mmX2490mm, 1580mmX2490mm**Extra large size = 2030mmX3050mm, 2000mmX3000mm**Standard size = other sizes*

Cast Acrylic Sheet Chemical Features (Resistant Properties to Chemical Agents)

| | | |
|---------------------|-------|----------------|
| Sulfuric Acid | 60° C | Stabile to 60% |
| Hydrochloric Acid | 60° C | Stabile to 30% |
| Nitric Acid | 60° C | Stabile to 20% |
| Caustic Soda | 60° C | Stabile to 50% |
| Aqueous Ammonia | 60° C | Stabile to 18% |
| Acetic Acid | 60° C | Dissolve |
| Ethyl Acetate | | Dissolve |
| Toluene | | Dissolve |
| Ethylene Dichloride | | Dissolve |
| Benzene | | Dissolve |
| Methyl Alcohol | | Dissolve |
| Diemethyl Formamide | | Dissolve |
| Acetone | | Dissolve |
| Aniline | | Dissolve |

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Cast Acrylic Sheet Average Physical Properties

| PROPERTIES | UNIT | |
|--|-----------------------|------------------------|
| Specific Gravity | | 1.19 |
| Hardness | | HNC – 96 |
| Water Absorption | % | 0.35 |
| Tensile Strength: | | |
| Tensile strength at yield | Kg/cm ² | 709 |
| Tensile strength of break | Kg/cm ² | 696 |
| Tensile modulus | Kg/cm ² | 29,532 |
| Elongation at break | % | 8 |
| Bending Strength: | | |
| Flexual Strength | Kg/cm ² | 1.052 |
| Flexual Modulus | Kg/cm ² | 31,264 |
| Impact Strength | Kg/cm ² | 1.1 |
| Shear Strength | Kg/cm ² | 600 – 650 |
| Transmittancy: | | |
| Full rays | % | 93.3 |
| Parallel rays | % | HAZE= |
| | | 0.27 |
| Specific Heat | Cal/g/°C | 0.35 |
| Heat Distortion Temperature (4.6kg/cm) | °C | 100 |
| Coefficient of Heat Conductivity | Cal/s.cm ² | 4.5 X 10 ⁻⁴ |
| Coefficient of Linear Expansion | Cm/cm/°C | 6.5 X 10 ⁻⁵ |
| Ultimate Temperature of Continuous Operation | °C | 60 – 90 |
| Flammability | Mm/ min | 33 |
| Surface Resistivity at 28°C | Ohm | > 10 ¹⁶ |
| Volume Resistivity | Ohm cm | > 10 ¹⁵ |
| Thermoforming Ranges | °C | 140 – 180 |
| Dielectric Strength | Kv/Mm | 20 |

Cast Acrylic Sheet Fire Rating

Cast Acrylic Sheet burn with little smoke generation. Its combustions gases are non toxic and non corrosive. It is classed as:

- Classification E according to Euro Norm (DIN EN SO 11925: 2: 2002-07)
- B2, with no burning droplets, according to DIN 4102
- M4(no droplets) according to NF 92500+
- Class 3 classification according to BS476 part 7
- Category TP (b) according to BS 2782, method 508A for thermoplastics material as defined by Building Regulations
- UL 94HB