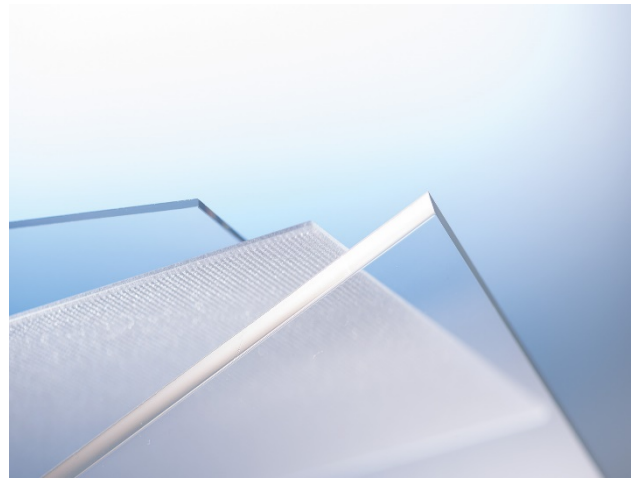


## Product data sheet

October, 2021

### ACRYLIC SHEET

Polymethylmethacrylate (PMMA) also known as organic glass for its absolute transparency and perfect surface quality. The material is very resistant to scratches and is a good alternative to solid polycarbonate. One important feature of acrylic is its high resistance to UV radiation, which allows it to retain the optical properties and original appearance for a long time in outdoor conditions. The PMMA is well amenable to mechanical processing and its plasticity, when heated, allows bending and molding the material into any shapes. This type of plastic is highly demanded in a variety of industries: automotive, construction, lighting, sanitary engineering and advertising industries.



#### ADVANTAGES:

- ✓ Highly transparent
- ✓ Refined appearance
- ✓ Abrasion-resistant
- ✓ UV-resistant
- ✓ Eco-friendly
- ✓ Moistureproof
- ✓ Durable
- ✓ Widely applicable
- ✓ Long-lasting

| OPTION            | DESCRIPTION  |                |
|-------------------|--|----------------|
| Thicknesses:      | 0.6 / 1 / 1.5 / 2 / 3 / 4 / 5 / 6 / 8 / 10 / 12 mm |                |
| Sizes (Standard): | 1250 x 2050 mm                                     | 2050 x 3050 mm |
| Colors:           | Transparent 1010                                   |                |

| PROPERTIES                   |  | VALUE                              |
|------------------------------|--|------------------------------------|
| <b>Physical Properties</b>   |  |                                    |
|                              | Density  | 1190 kg/m <sup>3</sup>             |
|                              | Water absorption (23°C) from dry state         | 0.2%                               |
|                              | Volume resistivity                             | > 10 <sup>15</sup> Ohm*cm          |
| <b>Mechanical Properties</b> |  |                                    |
|                              | Tensile strength, 23 °C                        | 70 MPa                             |
|                              | Modulus of elasticity                          | 3100 MPa                           |
|                              | Elongation at tear                             | 4.5 %                              |
|                              | Charpy impact strength                         | 15 kJ/m <sup>2</sup>               |
| <b>Thermal</b>               |  |                                    |
|                              | Coefficient of linear thermal expansion 0-50°C | 7*10 <sup>-5</sup> K <sup>-1</sup> |
|                              | Heat conductivity (l)                          | 0.18 W/m.K                         |

|                                |                       |         |
|--------------------------------|-----------------------|---------|
|                                | Vicat softening point | 105 °C  |
| <b>Optical characteristics</b> |                       |         |
|                                | Light transmission    | 92 %    |
|                                | Yellowing             | < 0.5 % |
|                                | Refractive index      | 1.492   |
|                                | Haze                  | < 1 %   |

| <b>COLD CURVING</b>     |     |     |      |      |      |      |      |      |
|-------------------------|-----|-----|------|------|------|------|------|------|
| <b>Thicknesses:</b>     | 2mm | 3mm | 4mm  | 5mm  | 6mm  | 8mm  | 10mm | 12mm |
| <b>Min Radius (mm):</b> | 660 | 990 | 1320 | 1650 | 1980 | 2640 | 3300 | 3960 |

## APPLICATIONS:

- ✓ Home design and architecture
- ✓ Electronics
- ✓ Mechanical engineering
- ✓ Trade and exhibition equipment
- ✓ Medicine
- ✓ Aquarium glazing
- ✓ Aviation
- ✓ Greenhouses
- ✓ Pools

The technical data of our products are typical ones; the actually measured values are subject to production variations.

