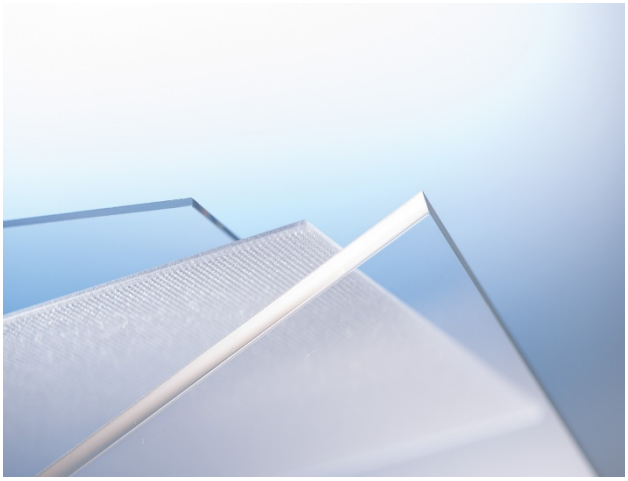
Polymethylmethacrylate (PMMA)

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 acryl 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
Physical Properties		
	Density	1190 kg/m3
	Water absorption (23ºC) from dry state	0.2%
	Volume resistivity	> 10^{15} Ohm*cm
Mechanical Properties		
	Tensile strength, 23 °C	70 MPa
	Modulus of elasticity	3100 MPa
	Elongation at tear	4.5 %
	Charpy impact strength	15 kJ/m²
Thermal		
	Coefficient of linear thermal expansion 0-50°C	$7*10^{-5}$ K^{-1}
	Heat conductibility (l)	0.18 W/m.K

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

COLD CURVING								
Thicknesses:	2mm	3mm	4mm	5mm	6mm	8mm	10mm	12mm
Min Radius (mm):	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.

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