PMMA

Other material names PMMA: Polymetylmetakrylát, plexisklo, plexiglas, akrylové sklo, akrylátové sklo, organické sklo
Material group: Plexiglass

PMMA is an amorphous material supplied in standard stock shapes for machining and fabricating. PMMA is vastly used worldwide as a glass substitute due to its valuable properties. PMMA material is more flexible, lighter and stronger than glass whilst still having excellent optical clarity, good chemical resistance and weathering properties. We supplies cast and extruded PMMA material in a range of clears, opals and colours. Extruded PMMA is the material choice for a number of applications in the sign and display and fabrication industries due to its ease of working. Whereas, with greater mechanical properties, cast PMMA is preferred for machining.

Typical applications:

- Signage and display
- Glazing
- Point of sale
- Lighting
- Furniture






Features:

- Good impact strength
- Excellent optical clarity
- Good UV and weather resistance
- High light transmission
- Excellent chemical resistance

Material availability: Some sizes are in stock

Material properties table

Specific weight	1.19 g/cm³
Tensile strength	70 N/mm²
Flexural strength	120 N/mm²
Tensibility	6 %
Tensile modulus	3 200 N/mm²
Impact toughness	17
Notched toughness	>1 kJ/m²
Ball hardness	130 N/mm²
Antistatic material	No
Electrical strength	15 kV/mm
Specific surface resistance	10^(15) Ω.cm
Thermal expansion	7 10^(-5)/K
Food contact	No

Engineering plastics are supplied in the form of bars, plates, strips, tubes and sheets. From the semi-finished products the company TechPlasty has regularly in stock, we also supply blanks.

All standard and special materials are designed to meet your specific requirements. Their mechanical, thermal, and electrical properties and chemical resistance satisfy the most demanding requirements and this allows them to work even in the most difficult conditions. If you need advice when choosing the appropriate material for your application, please contact us. We'll gladly advise you. You can utilize the long-term experience of our technical advisors free-of- charge, who can visit you right in your operation and solve your requirements for engineering plastics directly at the site of their usage.

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