



ACRYLIC (PMMA)

Acrylic Plate (PolyMethyl MethAcrylate) / (Perspex)



an® INTERNATIONAL

PRODUCT CAPABILITIES:

STOCK SHAPES

- Sheet : 1.2m x 2.4m
- Thickness : 1.5mm to 50mm

ADVANTAGES:

- Good Transparency
- Alternative to Polycarbonate (PC)
- Does Not Contain The Potentially Harmful Bisphenol-A Subunits Found In Polycarbonate
- Characteristics Include :
 - Durability, Consistent Quality, Clarity, Versatility, And Outstanding Performance.

PRODUCT COLORS:

- Clear

APPLICATIONS INCLUDE:

- Equipment / Machine Covers
- Used in Sign Industry (Signage)
- Commonly Used For Constructing Residential And Commercial Aquariums
- Fabricated Parts Requiring Optical Clarity
- Marine Components (Boat Windows, Forns, Hatches)
- Furniture

GENERAL PROPERTIES	ASTM or UL Test	PMMA Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	ISO 1183	1.19
Water Absorption, 24 hrs (%)	ISO 62	0.20
MECHANICAL		
Tensile Strength (MPa)	ISO 527	70
Tensile Elongation at Break (%)	ISO 527	4.0
Flexural Strength (MPa)	ISO 178	116
Flexural Modulus (MPa)	ISO 178	3200
Impact Strength – Charpy (Kj.m ⁻²)	ISO 179	12
IZOD Impact Strength (Kj.m ⁻²)	ISO 180 / 1A	1.4
Rockwell Hardness, M	ISO 2039-2	M 95
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ .K ⁻¹)	ASTM D696	7
Vicat Softening Point (°F / °C)	D648	> 230 / >110
Flammability Rating	UL-94	HB
OPTICAL PROPERTIES		
Light Transmission (%) (0mm)	ASTM D1003	> 92
Refractive Index	ISO 489 A	1.49

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.