

Product Overview

Our high-performance extruded acrylic sheets are engineered for precision, clarity, and durability across demanding commercial and architectural applications. Manufactured using advanced extrusion technology, these sheets offer consistent thickness, excellent optical properties, and superior surface quality. Ideal for signage, lighting, glazing, and display systems, this material combines lightweight versatility with long-term weather-ability and UV stability.

Finishing
Clear

XT Acrylic Sheet Thickness Tolerance (ASTM D4802)

Thickness (mm)	Tolerance %
1.5	±10%
2.0	±10%
2.4	±10%
2.5	±10%
3.0	±10%
4.5	±5%
5.5	±5%
6.0	±5%
8.0	±5%

XT Acrylic Sheet Properties

General Properties

Material Type:	PMMA (Extruded)
Density (ISO 1183):	1.19 g/cm ³
Water Absorption (ISO 62):	0.30%
Thickness Range	1.5 – 8mm
Width Range	1220 – 1270mm

Mechanical Properties

Tensile Strength:	~10,000–11,000 psi
Flexural Strength (ISO 178):	~14,000–17,000 psi
Modulus of Elasticity:	~490,000 psi
Elongation at Break (ISO 527-2):	4-5%
Rockwell Hardness (M Scale):	93-95
Charpy Impact Strength (Notched) (ISO 179):	1.5 - 2.8 kJ/m ²
Abrasion Resistance (50 cycles)	20-25% haze increase

Optical Properties

Light Transmittance (Clear):	~92%
Haze:	≤ 2% (for clear sheets)
Refractive Index:	~1.49
UV Resistance:	Excellent

Thermal Properties

Max. Service Temperature (Continuous):	160 °F
Vicat Softening Temp. (ISO 306):	210–220 °F
Thermoforming Temperature:	300–320 °F
Heat Deflection Temp. (ISO 75-1):	194-206 F
Flame Spread Index ASTM E84:	75-95
Self-Ignition Temperature:	~805 °F
Thermal Shrinkage (after heating):	<2%