



Acrylic

Acrylic is a transparent thermoplastic material with outstanding strength, stiffness, and optical clarity. Acrylic sheet is easy to fabricate, bonds well with adhesives and solvents, and is easy to thermoform. It has superior weathering properties compared to many other transparent plastics. Acrylic sheet exhibits glass-like qualities – clarity, brilliance, and transparency – but at half the weight and many times the impact resistance of glass. From durable signs and sky-lights, to eye-catching retail store fixtures, displays and shelves, acrylic provides outstanding versatility, durability, and aesthetic qualities.

Performance characteristics:

- Strong, stiff, optically clear
- Easy to fabricate, machine, and thermoform
- Easy to solvent bond
- Good dimensional stability
- Good weathering

TECHNICAL DATA SHEET | (EFFECTIVE 24FEB25)

Acrylic			
PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUE
Tensile Strength	D638	psi	10,000
Flexural Modulus	D790	psi	480,000
Izod Impact (notched)	D256	ft-lbs/in	0.4
Heat Deflection Temperature @ 264 psi	D648	°F	195
Maximum Continuous Service Temperature in air	-	°F	160
Water Absorption (immersion 24 hours)	D570	%	0.20
Coefficient of Linear Thermal Expansion	D696	in/in/°Fx10 ⁻⁵	4.0
Light Transmittance	D1003	%	92