



White

Material	Acrylic Plastic
Shape	Sheet and Bar
Texture	Smooth
Thickness	1/8"
Thickness Tolerance	-0.03" to 0.007"
Tolerance Rating	Standard
Width	12"
Width Tolerance	-1/4" to 1/4"
Length	24"
Length Tolerance	-1/4" to 1/4"
Backing Type	Plain
Hardness	Rockwell M100
Hardness Rating	Hard
For Use Outdoors	Yes
Temperature Range	-40° to 170° F
Impact Strength	0.04-0.5 ft.-lbs./in.
Impact Strength Rating	Poor
Tensile Strength	10,500 psi
Tensile Strength Rating	Good
Color	White
Clarity	Opaque
Performance Properties	Easy to Thermoform, Electrical Insulator, High Strength, Low Thermal Expansion, Low Water Absorption, Multipurpose, Weather Resistant
For Use With	Chlorine, Coolant, Diesel Fuel, Ethylene Glycol, Gasoline, Hydrochloric Acid, Isopropyl Alcohol, Kerosene, Mineral Oil, Phosphoric Acid, Sodium Hydroxide, Water

Chemical

Resistance

Excellent

Coolant, Diesel Fuel, Hydrochloric Acid, Kerosene, Mineral Oil, Phosphoric Acid, Sodium Hydroxide, Water

Moderate

Chlorine, Gasoline, Isopropyl Alcohol

Not Recommended

Acetic Acid, Acetone, Hydrogen Peroxide, Lacquer Solvents, Methyl Ethyl Ketone (MEK), Nitric Acid, Sulfuric Acid

Not Rated

Bleach, Fuel Oil, Heating Oil, Hydraulic Fluid, Methanol, Synthetic Oil, Vegetable Oil

Fabrication

Cast

Density

0.043 lbs./cu. in.

Flexural

10,000 psi

Modulus

Flexibility

Flexible

Coefficient of

Friction

Not Rated

Friction Rating

Not Rated

Dielectric

Strength

500 V/mil

Electrical

Insulation Rating

Excellent

Water

Absorption

0.2%

Water

Absorption

Good

Rating

Coefficient of

Thermal Expansion

 3.9×10^{-5} in./in./°F

Thermal Stability

Good

Comparable To

Acrylite, Lucite, Perspex, Plexiglas® Acrylic, Polycast

Warning Message

Physical and mechanical properties are not guaranteed. They are intended only as a basis for comparison and not for design purposes.

RoHS

RoHS 3 (2015/863/EU)
Compliant

REACH

REACH (EC 1907/2006)
(01/16/2020, 205 SVHC)
Compliant

Country of

Mexico

Origin

The combination of high strength and water resistance, along with a variety of color choices, makes these opaque cast acrylic sheets useful for outdoor signs and containers. This material is also known as Lucite and Plexiglas® Acrylic.