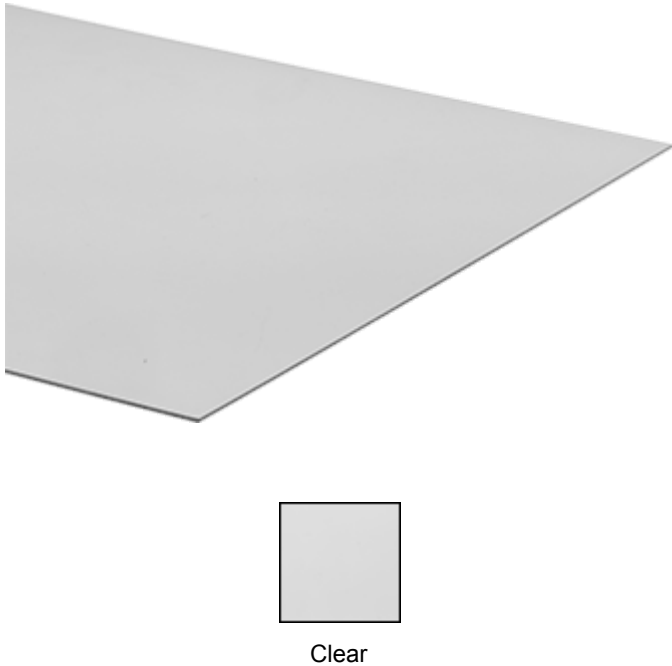


Clear Scratch- and UV-Resistant Cast Acrylic Sheet

12" x 24" x 1/16"

\$9.52 Each
8560K172



| | |
|-------------------------|--|
| Material | Acrylic Plastic |
| Shape | Sheet and Bar |
| Texture | Smooth |
| Clarity | Clear |
| Light Transmission | 92% |
| Thickness | 1/16" |
| Thickness Tolerance | -0.023" to 0.01" |
| Tolerance Rating | Standard |
| Width | 12" |
| Width Tolerance | -1/4" to 1/4" |
| Length | 24" |
| Length Tolerance | -1/4" to 1/4" |
| Color | Clear |
| Backing Type | Plain |
| Hardness | Rockwell M94-M100 |
| Hardness Rating | Hard |
| For Use Outdoors | Yes |
| Temperature Range | -40° to 170° F |
| Impact Strength | 0.3-0.4 ft.-lbs./in. |
| Impact Strength Rating | Poor |
| Tensile Strength | 10,000-11,250 psi |
| Tensile Strength Rating | Good |
| Chemical Resistance | |
| Excellent | Acetic Acid, Diesel Fuel, Hydrochloric Acid, Kerosene, Mineral Oil, Phosphoric Acid, Sodium Hydroxide, Water |
| Moderate | Bleach, Chlorine, Coolant, Fuel Oil, Gasoline, Heating Oil, Isopropyl Alcohol |
| Not Recommended | Acetone, Hydrogen Peroxide, Lacquer Solvents, Methanol, |

| | |
|----------------------------------|---|
| Not Rated | Methyl Ethyl Ketone (MEK), Nitric Acid, Sulfuric Acid Hydraulic Fluid, Synthetic Oil, Vegetable Oil |
| Fabrication | Cast |
| Density | 0.043 lbs./cu. in. |
| Flexural Modulus | 450,000-470,000 psi |
| Flexibility | Semi-Rigid |
| Coefficient of Friction | 0.8 |
| Friction Rating | Not Slippery |
| Dielectric Strength | 400-500 V/mil |
| Electrical Insulation Rating | Good |
| Water Absorption | 0.2-0.33% |
| Water Absorption Rating | Poor |
| Coefficient of Thermal Expansion | $3.4 \text{ to } 4.2 \times 10^{-5} \text{ in./in./}^{\circ}\text{F}$ |
| Thermal Stability | Good |
| Comparable To | Acrylite, Lucite, Perspex, Plexiglas® Acrylic, Polycast |
| Performance Properties | Clear, Easy to Thermoform, Electrical Insulator, Food Contact, High Strength, Low Thermal Expansion, Multipurpose, Weather Resistant |
| For Use With | Acetic Acid, Bleach, Chlorine, Coolant, Diesel Fuel, Fuel Oil, Gasoline, Heating Oil, Hydrochloric Acid, Isopropyl Alcohol, Kerosene, Mineral Oil, Phosphoric Acid, Sodium Hydroxide, Water |
| Specifications Met | Made of FDA Listed Material |
| 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 Origin
Indonesia

These cast acrylic sheets, bars, and cubes are often fabricated into tanks, see-through barrier panels, and light fixture lenses. Cast acrylic, which is comparable to Lucite and Plexiglas® Acrylic, is easier to machine than extruded acrylic. This material is scratch and UV resistant; it stands up to outdoor use better than polycarbonate and maintains clarity over time.