

# POLYCARBONATE vs. ACRYLIC

## QUICK COMPARISON

ACRYLIC SHEETING	POLYCARBONATE SHEETING
✗ 4x to 8x stronger than glass	✓ 30x stronger than acrylic, 250x stronger than glass
✗ Shaping more labor intensive, breakage more common	✓ More flexible, can be shaped at room temperature
✗ Stable at temperatures up to 190F	✓ Stable at high temperatures (240F) and is non-flammable
✗ Drilling can cause cracking	✓ Can be drilled without cracking
✗ Cleaning chemicals cannot be used on acrylic	✓ Highly resistant to chemicals

## POLYCARBONATE BENEFITS

- Polycarbonate sheets are naturally UV resistant, have high-impact resistance, and maintain their transparency, color, and shape for years
- Polycarbonate sheets are as transparent as glass, and they are 250x more resistant to breakage as standard glass and 30x stronger than acrylic
- Polycarbonate is also lighter and more durable than glass and easy for maneuvering and installation
- Low level of flammability, thermoplastic with a working temperature of 240F continuous
- Durable against chips and cracks, sheets can be drilled without worry of cracking
- Highly resistant to acids and other chemicals such as gasoline
- Cold formed or bent without heating



CARE Sneeze Shields are made from 1/4" thick polycarbonate sheeting. These customizable polycarbonate shields can be easily relocated and are easy to clean and disinfect.

## CLEANING & DISINFECTING

### CLEANING

Polycarbonate has a higher chemical resistance, allowing it to be cleaned by harsher cleaners containing chemicals such as ammonia. The best choice for cleaning is a micro fibre or 100% cotton cloths (no other types). **Should not be cleaned with solvents.**

### DISINFECTING

Soap and water, hydrogen peroxide and isopropyl alcohol-based sanitizer work best on polycarbonate. **Avoid hydroxides, dimethyl benzyl or ethyl ammonium chloride, ethylenediamine and hypochlorite.**