

## POLYCARBONATES vs. ACRYLICS

**Polycarbonates** are high-molecular weight, amorphous thermoplastics that have exceptionally high impact strength, making them virtually unbreakable. The most common trade names for polycarbonates are Makrolon® and Lexan®.

### KEY PROPERTIES OF POLYCARBONATES

- Impact/chip resistance is much higher with Polycarbonates (30 times more resistant than glass)
- More likely to scratch.
- Substantially more expensive. (roughly 2 to 3 times)
- Used for more industry applications
- Turns yellow over time due to ultraviolet rays
- Easier to work with (less likely to break when cutting)
- Poorer clarity; diffuses light; can lighten

**Acrylics** are known for their attractive, glossy surfaces, in practically any colour. Acrylics also have outstanding durability and are virtually unaffected by years of exposure to the elements, meaning Acrylic will not yellow over time when exposed to UV light. The most common trade names for Acrylic are Acrylite® and Plexiglas®.

### KEY PROPERTIES OF ACRYLICS

- More likely to chip, less impact resistance than Polycarbonate. (10-24 times more resistant than glass)
- Less likely to scratch
- Easily welded with solvents
- Does NOT yellow after time
- Better clarity and can be restored to optical clarity

## OTHER PRODUCTS BY TECHNICOR

