



SECURITY

Polymers, both transparent and opaque, are used in the construction of armor to protect people from physical assault, bullets and bomb blast attacks. Performance plastics keep people safe.

APPLICATIONS

- Bank windows
- Convenience store/gas station cashier glazing
- Courtroom/judge's bench shields
- Embassy windows
- Military/police face shields
- Military vehicle windows
- Prison/detention center glazing
- Riot shields
- VIP vehicle windows
- Weather rated windows (flying debris resistant)
- Security entryways
- Armored car construction

ADVANTAGES MAY INCLUDE

- Lightweight (easier to handle, store and less Optical transparency)
- Impact resistance at high strain rates
- Lightweight for easy installation
- Easy to fabricate (drill holes, polish, etc.)
- Easy to laminate with multiple materials
- Ease of application and replacement

MATERIALS

- Acrylic (PMMA)
- Ionomer
- KEVLAR® aramid fiber reinforced thermoplastics
- Polycarbonate (PC)
- Reinforced thermoset laminate shielding



DID YOU KNOW?

The window laminate that protects the U.S. President's limousine can withstand a 50-caliber bullet. New building codes require security-type laminated windows in areas prone to tornadoes and hurricanes. The plastic laminate structure works by converting kinetic energy into heat energy, allowing it to bend without shattering.