



PLASKOLITE



SCHOOL  
SAFETY  
PRODUCTS



**CURBELL**  
PLASTICS

**1-888-CURBELL**

[www.curbellplastics.com](http://www.curbellplastics.com)

Curbell Plastics is a proud supplier of Plaskolite materials.

# THE RIGHT PERFORMANCE PLASTIC – FOR THE RIGHT APPLICATION IN YOUR SCHOOL

Thermoplastics such as Acrylic, Polycarbonate and PETG play a critical role in the fight against spreading airborne diseases. These sheets have been fabricated into safety shields, sneeze guards, face shields and other types of protective barriers across many diverse industries.

Plaskolite is North America's leading manufacturer of thermoplastic sheet, and offers the largest portfolio of products to distributors to ensure your school is using the right plastic for the right job.

## TYPES OF PERFORMANCE PLASTIC FOR USE AS SAFETY SHIELDS IN SCHOOLS

Commonly Known as	ACRYLIC Plexiglass, PMMA	POLYCARBONATE PC, Polycarb	PETG Pet-G
Basic Properties	<ul style="list-style-type: none"> <li>» High optical clarity</li> <li>» Ease of fabrication</li> <li>» Interior/Exterior</li> </ul>	<ul style="list-style-type: none"> <li>» Impact resistance</li> <li>» Heat resistant</li> <li>» Durable</li> </ul>	<ul style="list-style-type: none"> <li>» FDA compliant</li> <li>» Light weight</li> <li>» Paintable/Printable</li> </ul>
Ideally Suited for	<ul style="list-style-type: none"> <li>» Desktop shields</li> <li>» Administrative offices</li> </ul>	<ul style="list-style-type: none"> <li>» Buses</li> <li>» Desktop shields</li> <li>» Hallways</li> </ul>	<ul style="list-style-type: none"> <li>» Cafeterias</li> <li>» Face shields</li> <li>» Medical offices</li> </ul>
PLASKOLITE Brand	OPTIX <sup>®</sup> ACRYLIC SHEET	TUFFAK <sup>®</sup> POLYCARBONATE SHEET	VIVAK <sup>®</sup> PETG SHEET

These plastics come in a variety of Colors (see-throughs such as bronze or gray to opaque solids to match your school colors), Thickness (thin and bendable to thick safety grades) and Coatings (non-glare, anti-fog and abrasion resistant). Not all plastics are available in all formulations, so please check with your local distributor for stock quantities.

### AMGARD ANTIMICROBIAL PLASTIC

A recent innovation is **Antimicrobial Plastic**. This next-generation plastic is a transparent sheet formulated with a silver ion antimicrobial agent that protects the surface from microorganism growth. Antimicrobial sheet is available in Acrylic and Polycarbonate under the AMGARD™ brand.



FOR MORE ON AMGARD VISIT  
[www.plaskolite.com/AMGARD](http://www.plaskolite.com/AMGARD)

### TOXIC GAS RISK WITH THE USE OF PVC

At first glance **PVC** (polyvinyl chloride) may look like Acrylic, Polycarbonate or PETG, but has properties which make it unsuitable for school use.

- » When burned, PVC emits toxic gases – hydrogen chloride (a sensory and pulmonary irritant) and carbon monoxide (an asphyxiant)
- » PVC sheet shows higher haze than other thermoplastic sheet materials leading to lower overall clarity and aesthetics
- » PVC is also a soft plastic and is prone to scratching and showing permanent bend and stretch marks



# PLASKOLITE

## UNDERSTANDING CODES AND PLASTICS COMPLIANCE

### Building Code Compliance

- » OPTIX®, TUFFAK®, and VIVAK® meet testing specifications per IBC Section 2606.4 for Light Transmitting Plastics
- » OPTIX, TUFFAK and Vivak achieve fire performance and smoke development Class ratings per ASTM E84 per IBC Section 803.1 for Interior Wall and Ceiling Finishes (thickness dependent).
- » TUFFAK CA complies with test specifications under NFPA 286 per IBC Section 803.1 for Interior Wall and Ceiling Finishes and may be used wherever a Class A code rating is required.
- » OPTIX, TUFFAK, and VIVAK pass testing specifications per NFPA 286 (modified) for plastic barriers, sneeze guards and separators

### Bus and NTHSB Codes

- » Conforms to FMVSS 205/ANSI Z26.1, AS4
- » NHTSA approved for use as a protective driver partition
- » High impact resistance protects operator
- » Specified direction of extrusion for proper installation
- » Enables drivers to interact freely with passengers
- » Does not shatter into sharp-edged pieces like glass
- » High optical quality provides clear line-of-sight for operator
- » 2-sided abrasion resistant coating
- » Longer service life and exceptional durability compared to glass
- » Easy to fabricate, install and clean – half the weight of glass
- » 7 year limited product warranty

## FABRICATING AND INSTALLING SAFETY SHIELDS

When preparing to install OPTIX, TUFFAK or VIVAK safety shields, you can choose from a variety of mounting options. Some design examples; surface mount, tee stand, slot stand, hanging, hinged, slotted feet, X-stand, etc. Stand options can be made from a variety of materials.

## CLEANING AND MAINTAINING YOUR SCHOOL'S SAFETY SHIELDS

When disinfecting Acrylic, Polycarbonate and PETG, proper procedures should be taken. Generally speaking, soap and water or hydrogen peroxide disinfectants work best on these sheet products. Bleach should never be used on Polycarbonate but household laundry grade bleach is safe to use on Acrylic.

Isopropyl alcohol is also safe for Acrylic (diluted to 30%) and Polycarbonate (diluted to 70%).

A detailed list of tested disinfectants is available at [www.plaskolite.com](http://www.plaskolite.com) or contact the Plaskolite Technical Service Group at **800.848.9124**.

# GENERAL PRODUCT RECOMMENDATIONS



Various applications can be served by several types of plastic. For example VIVAK PETG and AMGARD Safety Shields are both proper solutions for Cafeterias.

The right plastic solution depends on your unique requirements. We recommend contacting the experts at PLASKOLITE to get started.

## Classrooms

### OPTIX® Acrylic

OPTIX is ideal for most types of glazing with special UV stabilization to protect the sheet from yellowing

- » Easy to clean
- » Cut to size with standard tools
- » Optimal clarity and visibility

## Cafeterias

### AMGARD™ (OPTIX & TUFFAK antibacterial)

- » Protects surface against the growth of microorganisms such as bacteria, mold and mildew that cause stains and odors
- » Provides additional surface protection between cleanings

#### Product Comparison

	Glass	Regular Sheet	AMGARD Sheet
Prevents Microbe Growth	No	No	Yes
Shatter Resistant	No	Yes	Yes
Lightweight	No	Yes	Yes



## Buses

### TUFFAK DG

TUFFAK Driver Guard polycarbonate sheet provides the durability required for partitions and barriers in buses without inhibiting operator vision

- » NHTSA approved for use as a protective driver partition
- » Come with identifiable extrusion direction for proper installation
- » High visibility



## Face Shields

### VIVAK PETG

Transparent, reliable protection from air-borne virus transmission

- » High clarity
- » Easy to clean
- » Bendable
- » Cut to size with standard tools
- » VIVAK PETG sheet complies with ANSI Z87.1 face shield protection at 0.042" and thicker



**PLASKOLITE thermoplastics are proudly made  
in the USA**

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These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

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