

# Pro-Shield™

**THICK  
TOUGH  
DURABLE**

## PRODUCT INFORMATION

Pro-Shield™ laminate acts as a steadfast protector, for labels and decals facing the threat of abrasion, providing 12 mils of durable vinyl as a shield against contact.

Semi-rigid yet flexible, Pro-Shield guards powersport vehicle graphics, industrial labels, and other markings from wear, while permanent adhesive ensures they stay stuck to surfaces. This laminate can be made even more flexible with the aid of a heat gun during application.

Pro-Shield is trusted by graphics professionals to perform under rough conditions. This durable laminate is available in clear gloss, with sizes available from 13" to 54" wide and 10 to 50 yards long.

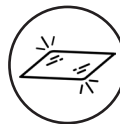
**Resists Failure in Abusive Applications.**  
Protect your graphics with PRO-SHIELD 12.

## NOTABLE QUALITIES



### ULTIMATE PROTECTION

Pro-Shield eliminates abrasions in high-wear areas on sport and industrial machines.



### CLARITY

The thickest, clearest, and most resilient gloss vinyl laminate on the market.



### VERSATILE

A variety of thicknesses and uses are achieved when Pro-Shield is combined with different base materials.



### SEMI-RIGID, YET FLEXIBLE

This thick, tough, durable laminate becomes more pliable with the aid of a heat gun.



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Marking Systems™**

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**General Description:** Flexible heavy duty clear vinyl with clear permanent acrylic adhesive. Different combinations of base materials and Pro-Shield™ can be used to achieve a variety of decal thicknesses and prices.

## PRODUCT SPECIFICATIONS

### TECHNICAL PROPERTIES:

**Thickness:** 12 mil vinyl with 1.5 mil of adhesive

**Outdoor Life:** UV is up to 2 years

**Shelf Life:** 2 years stored at 70°F & 50%RH

**Adhesive Properties:** 1.5 mils of permanent adhesive pressure sensitive adhesive works for most smooth surfaces.

**Service Temperature Range:** (-40°F to 176°F)

**Minimum Application Temperature:** 50°F

TESTS PERFORMED   RESULTS		
Ultimate peel from	Average OZ/IN	Test Method
Acrylic	104	ASTM D 903 (Modified for 72 hour dwell time)
Glass	74	
Polypropylene	21	
Stainless steel	70	
<b>Expected Shear</b> Room temp (hours)	10	ASTM D 3654 Method A a.1 hr dwell b.1 sq in surface c.4 lb load
<b>Tack</b> (gm/sq cm)	300	ASTM D 2979

### RECOMMENDED APPLICATION TECHNIQUES:

On curved surfaces such as helmets, apply by rubbing from the center out. CONVEX®, Pitbull™, PlaStick™ brand base materials are recommended in combination with Pro-Shield™. Laminate with a cold pressure sensitive laminator or by hand.

### CUTTER SOFTWARE SETTINGS:

If you have a Gerber enVision 375 Plotter/Cutter, determine the Force by performing 50% or more with test cuts. Or go to Plotter settings "F7" and set the Speed to 50, Acceleration to 50, Sharp Corners to 80 or higher, and Force to 75% or more. A 45 or 60 degree blade is recommended for all cutters cutting this material. Depending on the base material, it may be necessary to make double cuts by "cutting and pasting back" the cut lines in your design program. If you do not have an enVision series Gerber cutter, you will have to determine the settings by test cutting the material.

### Use a 45° blade or 60° blade on any combination of material 8 mil or thicker

*All of the descriptive information listed above is our recommendation only. This information does not suggest or constitute a written or verbal warranty or guaranty of any kind by the manufacturer or distributor of this product. Purchasers of this product shall be responsible for independently determining the suitability of the material for the intended application.*

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