

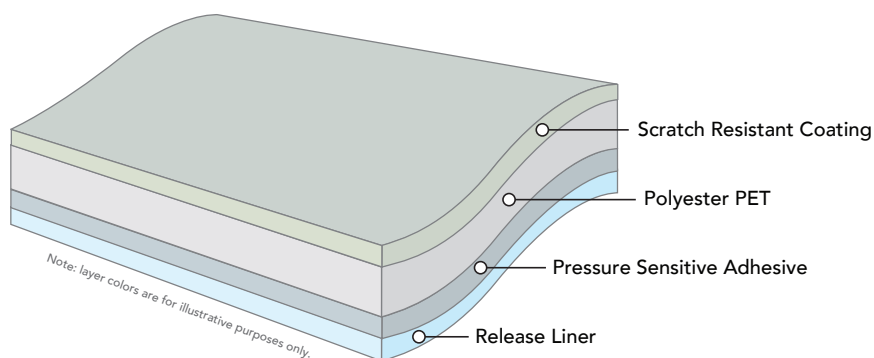
### CL 400 HPF

High Performance Surface Protection Film

Madico's CL 400 HPF film is designed to provide maximum surface protection for glass and polymer surfaces at an economical price point. CL 400 HPF offers optical clarity with 99% ultraviolet protection and 87% visible light transmission. This film is highly effective at protecting flat and radius surfaces from damage over time and can be readily replaced in the field. The materials used in the construction are environmentally friendly and compliant to EU RoHS and REACH regulations.

#### Material Construction:

- Scratch resistant coating
  - Polyester PET
  - Pressure sensitive adhesive
  - Release Liner
  - Total film thickness of 4.5 mil
- All thicknesses are based on nominal data.*



#### Film Characteristics:

- $\geq 99\%$  UV Rejection
- Coating hardness: 6H pencil hardness scale
- Coating abrasion resistance:  $<1.5\%$  Delta Haze
- Peel strength: 5 - 6 pounds per inch

#### Applications:

- Interior/exterior transit vehicles
- Transportation depots and platforms
- Point-of-sale kiosks and ATM machines
- Touch screens
- Electronic information displays
- Transactional devices
- Mobile data systems

#### Benefits:

- Minimizes repair and replacement costs
- Anti-spall for increased safety and security
- Field replaceable
- Economical protection



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Technical Performance

Film Characteristics

Test Method

Total Solar Energy	ANSI/NFRC 100,200
Transmitted .....	82%
Reflected .....	10%
Absorbed .....	8%
Visible Light	ANSI/NFRC 100,200
Transmitted .....	87%
Reflected .....	10%
Absorbed .....	3%
Ultraviolet Light	ANSI/NFRC 100,200
Transmitted .....	<1%
Rejected .....	≥ 99%
Film Thickness .....	0.0045 inch
Structural Component .....	0.004 inch
Tensile Strength .....	32,000 PSI average (MD/TD)
Break Strength .....	100 pounds per inch (width)
Adhesive Type .....	Acrylic pressure sensitive
Peel Strength .....	5 - 6 pounds per inch
Abrasion Resistance .....	<1.5% Delta Haze
Pencil Hardness .....	6H
Base Film Type .....	Polyester (PET)

The representations of performance and suitability for use contained in this datasheet are guidelines. Since only the user is aware of the specific conditions in which the product is to be used, responsibility to determine whether the product is suitable for that intended need belongs to the purchaser.

