

Color Laser Film - Schreiner

Schreiner Color Laser Film (CLF) label stock is a high-grade polyester composite that is extremely resistant to environmental conditions and has outstanding adhesion properties for rough industrial applications. CLF labels can be marked by a laser in a zero-emission process, during which the laser-active layer below the transparent laminate produces a high-contrast color reference layer for the inscription. Using laser cutting for the marking process, the film surface remains undamaged with no ablation of film particles, creating a tough, highly environment-resistant label.



Schreiner CLF is designed with an acrylic adhesive that has an extremely high tactile force. Due to its modified formula, this adhesive has been proven to perform on many different material substrates. CLF is available either as continuous material for individual laser cutting at the user's premises or as film labels cut to specified sizes.

KEY ADVANTAGES

Schreiner's color laser film/adhesive combination is perfectly suited for use in rough industrial environments or applications involving extreme ambient conditions. It consistently delivers:

- Flexible inscription
- Excellent contrast
- Excellent resistance to chemicals, temperature changes, mechanical abrasion, etc.
- Zero-emission laser marking process
- A non-halogen film, free of silicone and resistant to plasticizers
- Dimensionally stable and tear-resistant for heavy-duty use in industrial environments
- Suitable lamp or diode-pumped Nd:YAG laser systems and fiber lasers

MATERIAL SPECIFICATIONS

Properties		
Adhesive Properties	Modified acrylic adhesive with excellent weather, solvent and plasticizer resistance. A significantly thicker adhesive coating than with standard versions achieves outstanding adhesion even to rough and structured surfaces.	
Temperature Resistance	-40° C to +120° C (permanent service temperature)	
Adhesion	Substrate Tack force in N/25mm	
Glass	23	
Steel	17	
Aluminum	19	
Polypropylene	8	
<i>Above tack force values are average values. Final tack force is achieved approximately 72 hours after application.</i>		
Print Method	Laser-beam marked	
Product Form	Continuous material or film labels cut to a specified size	
Minimum Application Temperature	+10° C	
Shelf Life	Minimum storage period: 1 year under normal room conditions	
Resistance to chemicals and Solvents	Exposure period in hours	Change
Premium gasoline/super petrol	1 hour	none
Cold Cleaner	1 hour	none
Engine oil	1 hour	none
Total thickness (films + adhesives)		0.215 mm
Laminate	βPET, transparent	approximately 0.025 mm
Adhesive (Laminate)	Acrylic adhesive, modified	approximately 0.020 mm
Base film (color reference)	PET, white	approximately 0.050 mm
Adhesive	Acrylic adhesive, modified	approximately 0.040 mm
Climatic and Weather Resistance		
Climatic resistance according to DIN 50 017 –KK 240 hrs at 100 % rel. humidity and 40° C		no change
Weather Temperature Resistance (°C)	Exposure period in hours	Change
38	24	none
105	72	none
120	1	none
-30	24	none

All technical information and recommendations are believed to be accurate but do not guarantee or warranty. Suitability is the responsibility of the user.

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