

STANDARD ENGINEERING INSTRUCTION

Protection Film VS7510CC/CS-LD

DSM 5.1.6

1. Definition

Designed to protect automotive paint and other vulnerable surfaces from stone chips, scratches, bug damage, road tar stains, automotive fluid stains and punishing outdoor weathering. It is backed up with a 5-year warranty.

2. Current Application:

The Material used as gaskets on a several of PSP Tooling's (TRS Caps, Dedicated Tooling, Strip Tooling).

3. Product Assembly:

3M Venture Shield Paint Protection Film 7510CC/CS-LD has transparent film with glossy finish.



Cap Sheet – Polyester
Clearcoat – Polyurethane
Film – Polyurethane
Adhesive – Acrylic PSA
Liner – Polyester

4. Physical Properties:

The values displayed are the results of illustrative lab test measures made according to the indicated external norm and shall not be considered as a commitment from 3M.

Characteristic	Value	
Material:	Polyurethane	
Density:	1.06 g/cm ³	
Colour:	Transparent	
Thickness:	Film without adhesive:	6.4 mils (0.16 mm)
	Film with adhesive:	8.4 mils (0.21 mm)
	Liner:	3,5 mils (0,1 mm)
Adhesive:	Acrylic, pressure-activated	
Adhesive Appearance:	Clear	
Adhesion on automotive paint:	Initial State: 20 minutes at room temperature	15 N/in (6 N/cm)
	Normal State: 24 hours at room temperature	23 N/in (9 N/cm)
	Heat Aged: 72 hours at 80°C/176°F	25 N/in (10 N/cm)
Elongation:	450%	
Tensile Strength:	>5000 N/cm ² (20 MPa)	
Liner:	Polyester	
Application method:	Wet only	
Substrate types:	OEM paint	
Application temperature:	13 – 28 °C	

3M recommends application at +17 °C to +22 °C for optimum ease of application.

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5. Maintenance, Cleaning and Removal:

The cleaner must be wet, non-abrasive, without solvents, and have a pH value between 6 and 8 (neither strongly acidic nor strongly alkaline). These films can be removed with the aid of heat.

6. Shelf Life, Storage and Shipping:

The shelf life as defined below remains an indicative and maximum data, subject to many external and non-controllable factors. It may never be interpreted as warranty. The shelf life is never more than 1 year from the date of shipment.

Storage conditions: +15°C to +25°C, 50% r.H. max., out of sunlight, original container in clean and dry area.

Bring the film to room temperature before use.

7. Health and Safety:

When handling any chemical products, read the manufacturer's container labels and the Safety Data Sheets (SDS) for important health, safety, and environmental information.

[Follow the link to obtain SDS sheets for 3M products on 3M.com/SDS.](https://3m.com/SDS)

IMPORTANT! When using any equipment, always follow the manufacturer's instructions for safe operation.

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