

**Description**

Specially designed for various automotive surfaces, this material provides protection against paintwork chips and abrasion caused by stones etc.

**Printing Methods**

Not printable. Testing for suitability between media, printers and inks is always recommended prior to use.

**Available from stock in 1000mm width. Sold by the metre.**

**Technical Data****Face Material**

Type	Soft vinyl film
Colour & Finish	Gloss clear
Weight	320 g/m <sup>2</sup> $\pm$ 10% ISO-536
Thickness	240 $\mu$ $\pm$ 10% ISO 534-80

**Adhesive**

Solvent based permanent acrylic adhesive featuring good water and cleaning agents resistance. High adhesion on a wide variety of substrates such as glass, ABS, PS, PVC. Unsuitable for apolar surfaces (like PE and PP).

Reference	RI ASP8A
Type	Acrylic permanent
Minimum Application Temperature	+ 10 °C
Service Temperature	From -20 °C to +140 °C
Shear	Very High
Tack	High N/inch
Final Adhesion	Very High N/inch

**Liner**

Type	Siliconised two side PE Kraft	
Colour	White	
Weight	150 g/m <sup>2</sup> $\pm$ 10%	ISO 536
Thickness	160 $\mu$ $\pm$ 10%	ISO 534
Transparency	n.a. %	DIN 53 147-64

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### Adhesive

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### Liner

Type	Siliconised two side PE Kraft	
Colour	White	
Weight	144 g/m <sup>2</sup> $\pm$ 10%	ISO 536
Thickness	155 $\mu$ $\pm$ 10%	ISO 534
Transparency	n.a. %	DIN 53 147-64

## Description

This 150 micron Polymeric clear gloss PVC film has been designed for the protection of vehicle paintwork against stone chip damage, particularly on vulnerable areas such as front and rear bumpers, side skirts etc. Excellent conformability makes this product suitable for bonding to even and slightly curved surfaces.

Typical applications include total vehicle cover, vehicle graphics, signs and decal applications which require exterior exposure of 5 to 7 years. The material is designed to be removable, under controlled conditions, up to a period of three years.

As this quality of film is very soft, to facilitate application, it can be expected that the slight texture on the reverse of the liner may be partially transferred into the film face surface, which may reduce the apparent gloss level. Following application, the action of sunlight and temperatures above 18°C will help to restore the gloss level.

**Available from stock in 1524 mm width.**

## Technical Data

Characteristic	Test Method	Typical Value
Film Thickness	ISO 4591:1992	150µm
Elongation	ISO 527:1996	> 150%
Dimensional Stability (150 x 150mm/48 hours/70°C)	FTM14/Aluminium	< 0.5mm
Gloss 60°	ASTM 523-89	> 85%
Adhesive Thickness	ISO 4591:1992	25g/m²
Adhesive Type		Clear Permanent Cross-Linking Acrylic solvent based for both wet and dry application
Adhesion to stainless steel	20 Mins/180°	> 600 N/m
Adhesion to stainless steel	24 Hrs/180°	> 750 N/m
Release Liner		120gsm Single Sided PE Printed Black VWS
Flammability	Self-Extinguishing	
Artificial Weathering	Atlas Xenon Arc	> 1000 hours
Weathering	Vertical Exposure/Mid Europe	Clears 7 Years
Durability is based on middle European exposure conditions.		
Service Temperature		-20°C to +90°C
Resistance to various liquids after application of a 25mm strip of vinyl to stainless steel and conditioned for 24 hours at 23°C prior to immersion. Results examined 1 hour after test.		
Humidity		24 hours at 38°C and 100%
Water (Distilled)		24 hours at 32°C
Diesel Fuel		1 hour at 23°C
SAE Motor Oil		24 hours at 23°C
Antifreeze/Water (1:1)		24 hours at 23°C
Hydraulic Oil		24 hours at 23°C

## Description

Premium quality extruded aliphatic polyurethane film that has been specially developed for use in the automotive and other industries which require a self adhesive material to reduce corrosion, stone chipping and scratching. Polyurethane may also be used for anti-squeak applications.

The films are clear and have a specially developed Hi Tack aggressive adhesive system, which makes them suitable for use under or over painted surfaces. The materials have performed successfully when printed by rotogravure screen and digital methods using solvent based inks, as well as thermal transfer imaging. However it is advisable to test the process prior to any production run.

**Available from stock in 1245 mm width.**

## Technical Data

Characteristic	Test Method	Typical Value
Film Thickness	ISO 4591:1992	137 micron
Adhesive Thickness	ISO 4591:1992	50gsm
Adhesive Type		Hi Tack Self Cross Linking Acrylic
Release Liner		140gsm Stayflat Kraft/75µ antistatic matt backed polyester
Storage		Two years, out of direct sunlight at 73° F and 50% humidity. Where the film is supplied without either protective film attached, the shelf life under the same conditions above is reduced to three months.
Tensile	ISO 527:1996	> 30 N/mm <sup>2</sup>
Elongation	ISO 527:1996	> 250%
Shore Hardness A		90-95 units
Static Shear	FINAT FTM8/Stainless Steel	> 2 hours
Adhesion 20 Mins/180° 23°C	FINAT FTM1/Stainless Steel	430 N/m Minimum
Adhesion 24 Hrs/180° 23°C	FINAT FTM1/Stainless Steel	710 N/m Minimum
Dimensional Stability (150 x 150mm/48 hours) 70°C)	FINAT FTM14/Aluminium	< 1.0mm
Gravel Resistance (K82200)	SAE J400 2.4L of gravel	<ol style="list-style-type: none"> <li>48 Hrs at 23°C Shall not exceed approved test sample.</li> <li>48 Hrs at 23°C &amp; 4 Hrs at -30°C Shall not exceed approved test sample.</li> <li>4 Hrs at -30°C two cycles GM 950SP-F Shall not exceed approved test sample.</li> </ol>
Abrasion Resistance	1000 Cycles, 500g load, CS-17 Wheel	No wear through to substrate.
Fuel Resistance		No blistering, visible shrinkage or edge lifting
Environmental Resistance		No blistering visible shrinkage or edge lifting.
		No discoloration (DE measured on white standard in CMC 2) greater than: -
		<ol style="list-style-type: none"> <li>2500 KJ WOM 1.5 ΔE Maximum</li> <li>168 Hrs @ 70°C 2.5 ΔE Maximum</li> <li>168 Hrs @ 120°C 18.0 ΔE Maximum</li> <li>168 Hrs Humidity 2.0 ΔE Maximum</li> </ol>
Weathering	Vertical Exposure/Mid Europe	6-8 Years