

## 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