

## DEFINITION

### Self-adhesive film for temporary surface protection.

NOVACEL protective film is used for the protection of surface finishes from dirt, scratches and tool marks during handling, transport and storage, forming and assembly.

## CHARACTERISTICS

	Method	Metric units	US units
Film type	/	polyolefins	
Colour	/	Black and white (external side white)	
Type of adhesive	/	Rubber	
Thickness	AFERA 5006	60 µm	2.4 mils
PAL / A	AFERA 5001	105 cN/cm	9.6 oz/in
Breaking strength	AFERA 5004		
Machine direction		> 0.9 daN/cm	> 5.1 lbs/in
Transverse direction		> 0.6 daN/cm	> 3.4 lbs/in
Elongation at break			
Machine direction		> 250 %	> 250 %
Transverse direction		> 450 %	> 450 %
Outdoor Utilisation : 3 months bare metals / 6 months pre-coated metals and plastics / 12 months profiles			

\* AFERA : Association of European Self-Adhesive Tape Manufacturers.

## PRINCIPAL USES

Protected materials :

Bare metals : Cold rolled stainless steel, Zinc, Aluminium, Anodized aluminium  
 Pre-coated metals : Polyester (PES), Polyvinylidene fluoride (PVDF), Plastisol, Skinplates  
 Plastics : Polycarbonate (PC), Polymethyl methacrylate (Acrylic), Polyethylene terephthalate glycol (PETG),  
 Polyvinyl chloride (PVC), Polystyrene (PS), Acrylonitrile butadiene styrene (ABS) - Styrene acrylonitrile (SAN)  
 - Acrylonitrile styrene acrylate (ASA), Polyethylene (PE) - Polypropylene (PP), Decorative sheets  
 Profiles : White PVC, PVC with a decorative sheet, Painted Aluminium, PVC boards  
 Decorative laminates : Standard, Metallic finish

State of surface : Smooth / glossy, Lightly structured / Semi matt

For the other applications, please consult NOVACEL.

It is not advisable to use on copper, brass and alloys containing copper.  
 Adhesive side should not be exposed to direct sun light.

## LAMINATION

The protective film must be applied to a clean and dry surface with the aid of a laminating machine. The protective film can be applied manually if it had been validated before. The film must be applied without bubbles and without excessive tension.

Elongation of the film during lamination should be < 1%.  
Recommended application temperature between 15°C / 59°F and 50°C / 122°F.

## PRESENTATION

NOVACEL can supply plain rolls in a maximum width of 2600 mm / 102 in.

## STORAGE AND APPLICATION

The protective film must be stored in its original packaging, in clean, temperate conditions. The protective film should be applied within a 6 month period from the delivery date.

The protective film should be removed within 1 year from the date of lamination

including 3 months bare metals / 6 months pre-coated metals and plastics / 12 months profiles outdoor, while avoiding the presence of stagnant water

In case of screen printing after the removal of the film NOVACEL asks the customers to check, before use of the film, that the screen printing is not put in trouble by the use of the film.

Care should be taken for heating surfaces by infra-red radiation protected with the printed protective film : the printed surface of the film can absorb infra-red radiation at a different rate than the unprinted surface. NOVACEL requests that the client makes tests to ensure that this absorption differential does not have an undesirable effect on the protected surface. In the event that this phenomenon gives problems, a different type of heating should be used (preferably oven-heating).

## PRINTABILITY

The protective film can be printed in one or two colours. The annual quantity is 100000 sqm minimum and 50000 sqm minimum per order and per width (+/- 10 %, as normal practice for printed products). It becomes a communication support you can use for corporate identity support, displaying company or product logo or label, advertising, instruction and specifications, methods of use of the protected surface. Some printing can lead to restriction about outdoor exposure, consult NOVACEL

***Our sales department is at your disposal for  
further information***

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### Reach - Recyclage

At present, as regards to REACH regulation, NOVACEL can attest that none of the substances included in the list published by the European Chemicals Agency enters in the composition of its films. On the other hand, NOVACEL cannot, for obvious confidentiality reasons, communicate the exhaustive composition of its films. The waste executive directive n° 2008/98/CE requires that each state of UE takes measures to increase the energy recovery, re-use and recycling of waste. NOVACEL can attest that our protective films can be recycled. The energy recovery and dumping are possible in accordance with local or national legislation in force, in authorised waste treatment center.

### General guarantee conditions

NOVACEL self-adhesive, protective films are designed for temporary surface protection of surfaces against dirt, scratches and tool marks. Their applications are very diverse and the conditions of use can vary from one company to another, and for this reason NOVACEL always ask the Customer to test the product and carry a full trial, prior to its use.

The evaluation trial must take into account the type of material on which the product is used, the surface finish, the temperature and processing constraints, and the time and conditions for interior or exterior use.

The principal utilisations mentioned in part III are only indicative and will not engage NOVACEL's responsibility if utilisation test is not done under normal use forecast by the customer.

In case of modification of the protected surface (nature, appearance and texture) or in the case of change in lamination of process conditions, the customer commits to inform Novacel in order to conduct additional tests.

NOVACEL cannot be responsible for the misuse of the product, nor for the consequences of their usage for non-recommended applications.

The product guarantee is generally limited to the replacement of the defective product and does not cover consequential claims.



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