

NOVACEL 4224

— DEFINITION AND RECOMMENDATIONS FOR USE

Self-adhesive process film for mechanical, thermal or chemical industrial operations of materials during production, processing and assembly phases.

The absence of film during industrial processes can lead to irreversible degradation of processed materials.

- **MAIN APPLICATIONS *** : Stainless steel, aluminium, pre-coated materials, plastics, PVC & Aluminium profiles, laminates
- **SPECIFIC FEATURES :**
 - Film compatible with LASER CO2 cutting
 - Very high adhesion
- **CAUTIONARY ADVICE:** It is not advisable to use on copper, brass and alloys containing copper. Adhesive side should not be exposed to direct sun light.

— TECHNICAL DATA

	Item	Method of measurement	Metric units	US units
Specifications	Nature of the substrate		Polyolefins	
	Color/Colour		Black&White	
	Type of adhesive		Rubber	
	Thickness	AFERA 5006	100 µm	3.9 mils
	PAL/A	AFERA 5001	115 cN/cm	10.5 oz/in
Technical performance	Breaking force	AFERA 5004		
	Longitudinal		> 1.3 daN/cm	> 7.4 lbs/in
	Transversal		> 1.1 daN/cm	> 6.3 lbs/in
	Elongation at break (%)	AFERA 5004		
	Longitudinal		> 150	
	Transversal		> 500	
	Outdoor resistance	In months	12 month(s) except Stainless steel-Zinc (6 month(s))	
Environmental information	Recyclability	Definition on www.novacel-solutions.com	Yes	
	Carbon footprint**	kgCO2 eq/m²	> 0,25	
	Recycled PE (post-customer use)	% by film weight	0%	
	Non-fossil PE in mass balance	% by film weight	0%	

— PRESENTATION

Rolls can be supplied unprinted with a maximum width of 2600 mm / 102 in

* The main uses mentioned in this data sheet are not exhaustive. Our sales and technical teams are available for consultation and analysis of film use on other substrates and differing surface conditions. Please refer to the general warranty conditions below when approving our products.

** Internal assessment, based on cradle-to-gate inventories of similar products certified by a third party. The above environmental assessment data is provided for information only. It may be modified, updated and/or amended without notice. Novacel provides no warranty as to its completeness, accuracy or timeliness after the latest update date and disclaims all liability for the use of such data.

— INSTALLATION

We recommend that film is stored at room temperature for a minimum of 24 to 48 hours before use. Apply the film to a clean, dry surface using a laminator. Manual application is not ideal so please consult with Novacel for prior approval.

Installation must be carried out without wrinkles or bubbles, and without excessive film tension.

Film elongation during lamination lower than 1 %

Recommended application temperature between 15°C / 59°F and 50°C / 122°F

— STORAGE AND USE

Store the film in its original packaging until use, in a temperate room (between 15°C/59°F and 30°C/86°F). The film must be used within 6 months of receipt.

Remove the film from the approved surface within one year from the date of film lamination. Take into account the outdoor performance guarantee mentioned in the table on page 1, avoiding the presence of stagnant water and a temperature between 10 and 40°C. Novacel recommends that the film should be removed by a professional.

— PRINTABILITY

Novacel is on your side for prints.

- The film can be printed in one or two colours.
- The minimum annual quantity is 100000 sqm and 50000 sqm per order and per width (+/- 10 %, as normal practice for printed products).
- When using a printed film, customers must check that there are no residual effects on the surface after processing.
- Some printing can lead to restriction about outdoor exposure, consult NOVACEL

General warranty conditions

As the applications of NOVACEL films are very broad and the conditions of use may vary from one company to another, NOVACEL asks its customers to systematically carry out qualification tests on an industrial line before using the product, and to communicate the conclusions to Novacel.

These tests must take particular account of the type of material on which the product will actually be used, its surface condition, the mechanical and thermal working stresses with and after film removal, and the actual ageing time and conditions required. The product approval protocol is available at www.novacel-solutions.com.

The main uses mentioned in this data sheet are indicative only, and NOVACEL cannot be held responsible in the absence of tests prior to mass production for the use envisaged by the customer.

In the event of any modification to the surface (nature or appearance of the surface) or to the conditions of application or use, the customer undertakes to inform NOVACEL, so that additional tests can be carried out.

NOVACEL cannot, under any circumstances, be held responsible for defective use of the products sold, nor for the consequences of their use for purposes other than those for which they are ordinarily intended.

The warranty is expressly limited to the replacement of products found to be defective, to the exclusion of any other indemnity or damages. The warranty as defined in article 1641 of the French Civil Code does not apply.

This commercial warranty applies for a period of 18 months from the date of purchase invoice.

This product and/or its features may be changed or discontinued without prior notice.

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

www.novacel-solutions.com
contact@novacel-solutions.com

