

PROTECTIVE FILM NOVACEL 4223

I - DEFINITION

Self-adhesive film for temporary surface protection.

II - CHARACTERISTICS

- Film type : Low density Polyethylene
- Colour : Black and white (external side : white)
- Type of adhesive : Rubber

| | Method | Metric Units | US Units |
|-----------------------------|------------|--------------|--------------|
| Average thickness | AFERA 5006 | 80 μ m | 3.2 mils |
| Breaking strength : | | | |
| Machine direction | AFERA 5004 | > 1.2 daN/cm | > 6.8 lbs/in |
| Transverse direction | | > 0.9 daN/cm | > 5.1 lbs/in |
| Elongation at break : | | | |
| Machine direction | AFERA 5004 | > 300 % | > 300 % |
| Transverse direction | | > 400 % | > 400 % |
| Adhesion to stainless steel | AFERA 4001 | 65 cN/cm | 5.9 oz/in |
| Unwind force | AFERA 4008 | < 200 cN/cm | < 18.3 oz/in |

N.B. : - AFERA : Association of European Self-Adhesive Tape Manufacturers.

III - PRINCIPAL USES

NOVACEL product reference 4223 is used for the protection of surface finishes from dirt, scratches and tool marks during :

- Handling
- Transport and Storage
- Forming
- Assembly...

NOVACEL 4223 is extremely versatile and can be used to protect the following :

- **Cold rolled stainless steel**
- Chrome or nickel alloys
- Aluminium (anodized alu or not)
- Plastic sheets (PVC, PMMA, PC, PS)
- Decorative laminates
- Painted metal
- Rigid PVC
- Prepainted metal
- Metal/PVC laminates

NOTE : It is not advisable to use 4223 on copper, brass and alloys containing copper.

IV - PRINTABILITY

NOVACEL 4223 can be printed with double blue stripes ; this is the 4223RB reference.

The film can be printed in one or two colours and the minimum quantity per order is 50.000 SQM (+/- 10 %, as normal practice for printed products).

The printed message can be used for :

- Corporate identity support
- Displaying company or product "logos"
- Advertising
- Instructions and specifications
- Methods of use of the protected surface

V - PRESENTATION

NOVACEL can supply rolls in different lengths and in widths up to 2600 mm / 102 in.

For example :

- Exterior diameter of the 1000 linear meter rolls : approx. 334 mm / 13 in.
- Exterior diameter of the 2000 linear meter rolls : approx. 462 mm / 18 in.

Interior diameter of core : 76 mm / 3 inches

VI - LAMINATION

NOVACEL 4223 must be applied to a clean and dry surface with the aid of a laminating machine. The film must be applied without bubbles and without excessive tension (elongation of the film during lamination should be less than 1 %).

VII - STORAGE AND APPLICATION

- The NOVACEL 4223 film must be stored in its original packaging, in clean, **dry** conditions.
- The film should be applied within a 6 month period from the delivery date.
- The film should be removed within 1 year from the date of lamination, or within 6 months if the product has been exposed to outdoor ageing.
- Care should be taken when using infra-red (IR) radiation for heating surfaces protected with the printed NOVACEL 4223 film :

The printed surface of the film can absorb IR radiation at a different rate than unprinted surface. Prior to the use of printed NOVACEL 4223, NOVACEL requests that the client makes tests to ensure that this absorption differential does not have an undesirable effect on the protected surface. If the event that this phenomenon gives problems, a different type of heating should be used (preferably ovenheating).

- Elimination of protective film waste.

Recycling is possible. Dumping or incineration possible under conditions to respect the local or national regulation in force.

VIII - GENERAL GUARANTEE CONDITIONS

NOVACEL self-adhesive, protective films are designed for temporary surface protection of surfaces against dirt, scratches and tool marks ; they are not designed for protection against corrosion, humidity or chemicals. Their applications are very diverse and the conditions of use can vary from one enterprise to another, and for this reason NOVACEL always ask the Client 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.



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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.

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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