

— PRE-COATED METALS

PROCESS & PROTECTIVE FILMS,
LAMINATORS, TECHNICAL TAPES



A grayscale photograph of a man with glasses and a white lab coat, looking intently at his work in a factory. The background shows industrial machinery and pipes.

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ABOUT NOVACEL

As a 40-year-old worldwide leader in surface solutions, Novacel proposes a comprehensive offer to its customers, ranging from industrial process films to technical tapes and papers products, machines and associated services.

Novacel continuously focuses on expertise and innovation to provide its customers and partners with the most appropriate recommendations to add value to their materials and to help enhance their industrial efficiency.

Novacel is present in **90 countries** with more than **750 employees** and several production sites worldwide. In line with its 'Beyond the Surface' ethos, Novacel is deeply committed to sustainability and innovation for People and the Planet. Novacel is part of the Chargeurs Group.



NOVACEL, YOUR EXPERT FOR PRE-COATED METAL SURFACES

Prepainted metals are versatile and can be used almost everywhere: on building exteriors and interiors, industrial appliances and transport.

Thanks to excellent product specifications such as a wide variety of surface structures and colors as well as excellent workability and resistance to corrosion, pre-coated metals can satisfy all creative requirements. It also meets production needs in terms of quality and sustainability on construction sites.

Pre-coated metals are vulnerable materials and go through multiple severe processing operations before becoming finished products. The whole manufacturing process is therefore challenging for them and they require the right solution to avoid being damaged.

As your committed partner, Novacel makes a point of staying ahead of new technical developments and changes in technology in order to remain at your side, anticipating the risks and opportunities that are created and adjusting its solutions to accompany your pre-coated metal surfaces.

WHY USE NOVACEL SOLUTIONS?

> A Global Solution Provider

Novacel offers complete solutions with processing films, technical tapes, paper products, machines and associated services.

> Unique features for your specific needs

We create innovative solutions to improve your industrial efficiency and ensure the well-being of people; like films dedicated to new surfaces or processes, low noise, easy peel or easy unwind.

> Expertise & Technical support

Our teams are dedicated to providing you with the best experience and assisting you from the initial search for the right solution right up to its final implementation.

> A Strong CSR Commitment

Novacel works continuously on its carbon footprint by improving its production, creating eco-responsible solutions and putting human well-being at the heart of its strategy.



NOVACEL'S COMMITMENT TO PEOPLE AND THE PLANET

Novacel CSR Strategy is organized around 3 pillars:

- **Creating a responsible industrial community**
- **Minimizing our environmental impact**
- **Eco-designing our products**

As a responsible manufacturer, Novacel takes responsibility for the impacts of its decisions and activities on society and the environment. Given this, Novacel promotes operational excellence and staff engagement through regular team upskilling and training. Moreover, through our responsible purchasing charter, we strive to adhere to ethical business practices with our partners and our employees' approach to their work is governed at all times by the Chargeurs Group Code of Conduct.

Reducing the environmental impact of our products by innovating right from their initial conception up to their life and taking care of teams' and customers' health are at the heart of Novacel CSR Strategy.

Tackling the ecological impact of our products on the planet is a daily challenge.

Oxygen, Novacel's unique range of responsible products, promises to:

- **Reduce fossil raw materials use to save non-renewable resources**
- **Use a maximum of recycled resources to limit the production of new fossil-based films**
- **Minimize CO₂ emissions**
- **Be 100% recyclable**



- **FOSSIL RESOURCES**



- **CO₂ EMISSION**



+ **RECYCLING**

Increasing human wellbeing at work is a daily preoccupation at Novacel both internally and externally. Novacel is constantly developing technologies with this in mind in order to decrease repetitive strain injury (RSI) and increase the quality of the work environment:



EASY PEEL



EASY UNWINDING



LOW NOISE

Ask now for a free sample roll for formal approval on your fabrication line!

— OXYGEN, NOVACEL ECO-RESPONSIBLE RANGE

Manufacturers of Pre-coated Metals are driven by sustainability and involved in preserving the environment. They are committed to reducing their carbon footprint by using less fossil-based films on their materials or even significantly increasing the overall post-consumer recycled content.

In this context, on top of its commitment to responsibility, **Novacel has designed the first eco-responsible range of process and protective films**, adapted from its successful and well-established products engineered for Pre-coated Metals.



Novacel is certified ISCC+ for its Oxygen vegetal range. By sourcing ISCC certified mass balanced material, Novacel contributes to replace virgin fossil resources by renewable feedstocks and reaffirms its commitment to best environmental practices.

Novacel OXYGEN, 3 technologies to reduce your carbon impact:



RECYCLED to reuse wasting polyethylene



VEGETAL based on 30% vegetal oil waste with mass balance approach



LEAN reduces fossil polyethylene's quantities



Find all Oxygen codes and their specificities in green in the tables inside the brochure.

— FILMS FOR BUILDING & ARCHITECTURE

GENERAL USE

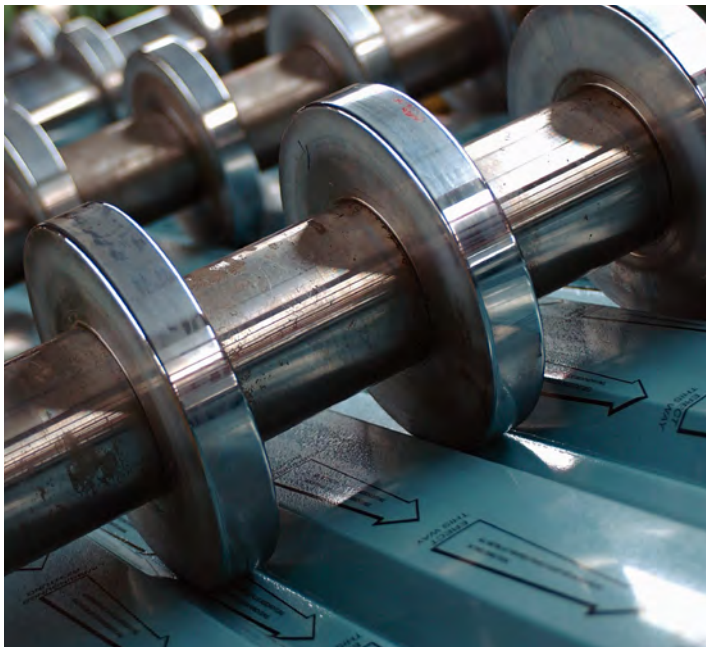
The construction industry and architects are increasingly turning to pre-painted metal to meet their design visions for both commercial and residential installations. Pre-painted metal's ability to be formed into almost any shape, its excellent resistance to weathering for superior longevity, the infinite aesthetic possibilities for color and texture options, and positive environmental benefits, make it an ideal choice for both interior and exterior application in construction.

Pre-painted metal is increasingly being used in roofing, storage units, garage, insulated panels and a varied range of other construction components. The building & architecture market involves **severe**

processes such as roll forming, bending and foaming, which require the right film solution to preserve the end-products.

With its close relationship with producers and R&D laboratories, Novacel has designed a broad range of **films dedicated to the various shapes, finishes and specificities** of building and construction surfaces, ensuring that they are kept **perfect** throughout all construction steps while providing **optimum outdoor resistance**.

Our surface solutions act as a **barrier against all environmental factors** that can affect metal, such as moisture, UV radiation, chemicals and physical damage.

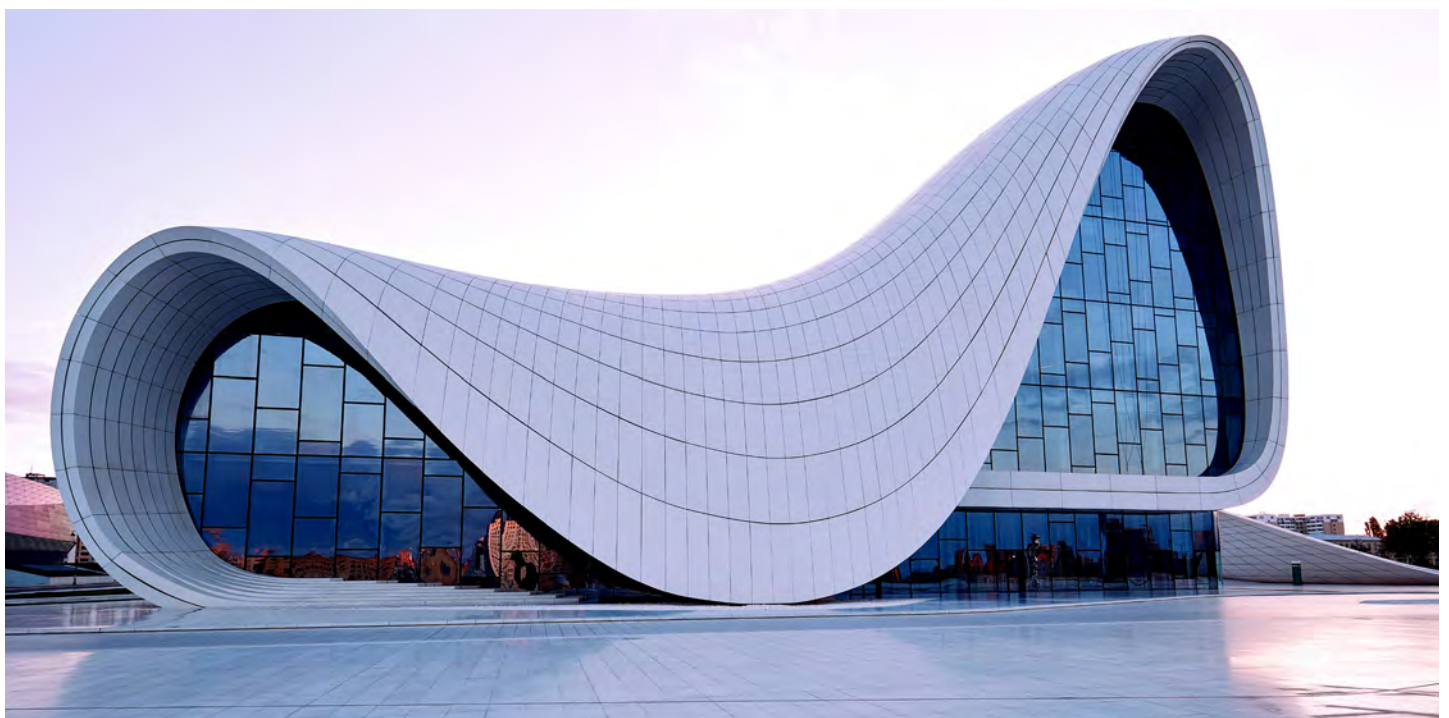


NOVACEL ASSETS

- Specific, stable adhesion systems
- Optimal resistance to mechanical and thermal processes
- Unique worldwide outdoor resistance (up to 12 months)
- No impact on the surface

OUR ECO-RESPONSIBLE SOLUTION, OXYGEN 3120:

- Thickness: 28 μm
- -25% recycled polyethylene content
- -11% CO₂ emission reduction with 0.09 kg CO₂/m²
- 100% recyclable



NOVACEL PREMIUM SOLUTIONS

Olympeaks range

The creativity of prescribers tends to promote more **textured, matt and colored surfaces** that have the look of natural materials. To meet the construction's industry requirements, our range has been designed in partnership with the laboratories of paint manufacturers & coil coaters. OLYMPEAKS provides **perfect adhesion** to mat, rough or wrinkled substrates, and peel off & reposition in one piece. It is specifically formulated to **preserve the integrity of your surfaces** during throughout all industrial processes and offers a **unique worldwide outdoor guarantee**.



Anti-collapsing range

Producers of **large coils** have a major need for solutions to prevent collapsing coil. Novacel has designed a dedicated "anti-collapsing" range to **protect coils up to 12 Tons**. It allows you to increase your productivity and get the full benefit of the protection at the end of the paint line with no risk of the coil slumping.

Grade	Thickness (µm/mils)	Adhesion	Outdoor resistance	Colors	Specific features
4152	28 µm / 1.1 mils	Medium high	3 months	Clear transparent	For smooth, glossy and lightly structured building surfaces
3120	28 µm / 1.1 mils	Medium-high	3 months	Clear transparent	Oxygen Recycled grades - For smooth, glossy and lightly structured building surfaces
3186	30 µm / 1.3 mils				
3100	33 µm / 1.3 mils				
9371	35 µm / 1.4 mils	Very high	3 months	Clear transparent	For lightly structured, matt and embossed surfaces
9383	45 µm / 1.8 mils	High			Olympeaks film - for embossed and matt surfaces
9042	33 µm / 1.3 mils	Medium			Anti-coil collapsing film
9373	50 µm / 2.0 mils	Medium high		Black and white	Rubber film for glossy, lightly structured and semi-matt surfaces
9082	70 µm / 2.8 mils	High	6 months	Clear transparent	Anti-coil collapsing film
4228RLN	100 µm / 3.9 mils			Black and grey	Low noise and fiber laser film
4273	105 µm / 4.1 mils	Ultra High			Rubber Olympeaks film - for rough and matt surfaces

ALUMINIUM COMPOSITE PANELS

Aluminum Composite Panels (ACP), made of Aluminum Composite Materials (ACM), are flat panels consisting of three thin coil-coated Aluminum sheets bonded to a non-Aluminum core. This type of material is specially designed for the construction, renovation and refurbishment of ventilated facades. It provides solutions that can be adapted to all fields of architecture. ACPs are mainly used for external and internal architectural cladding or partitions, false ceilings etc. ACPs are easy to install and are resistant to chemicals, moisture, corrosion and UV radiation as compared to conventional cladding materials.

Process and protective films for Aluminum Composite Panels offer several benefits both during installation and over the long term.

Novacel has designed the perfect solutions to preserve your ACPs, always keeping up to date with the latest market trends, offering a variety of finishes, colors and shapes.



The films are designed to be **easily removable without leaving residue or damaging the ACP surface.** This makes it easy to peel off the film once the panels are installed, revealing a clean surface beneath. In this way, Novacel films ensure your customers gets a **perfect result.**

NOVACEL ASSETS

- Optimal resistance to mechanical processes
- Prevention of surface damage and retention of the original finish
- Clean surface after removal
- Unique worldwide outdoor resistance

OUR ECO-RESPONSIBLE SOLUTION, OXYGEN 3000:

- Uses 30% vegetal oil waste via a mass balance approach
- -31% CO₂ emission reduction with 0.16 kg CO₂/m²
- 100% recyclable





Grade	Thickness (µm/mils)	Adhesion	Outdoor resistance	Colors	Specific features
4254	50µm / 2 mils	Medium high	6 months	Clear transparent	For smooth, glossy and semi-matt surfaces
4233	70µm / 2.8 mils	Medium	6 months	Black and white	Rubber film - for smooth, glossy, lightly structured and semi-matt surfaces
3000	70µm / 2.8 mils	Medium	6 months	Black and white	Oxygen Vegetal grade - black and white film. For smooth / glossy, lightly structured and semi-matt surfaces.
4224	100 µm / 3.9 mils	Very high	12 months	Black and white	For smooth, glossy, matt and rough surfaces

— FILMS FOR APPLIANCES

In the appliance market, pre-painted metal refers to metal sheets or coils coated with a layer of paint or other coatings to be used for refrigerators, washing machines, ovens, and more.

Pre-coated metal gives a **very aesthetic finish** to appliances. With the last technologies and trends, the coating not only enhances the aesthetic appeal of end-products but also provides several functional and technical benefits: from **fingerprint resistant coatings** on refrigerators to **heat-resistant coatings** on dishwashers.

With its long-term market expertise, Novacel has designed a high quality range of films dedicated to the various shapes, finishes and specificities of appliance surfaces.

Our film formulation guarantees retention of **the premium visual aspect** of your surfaces. It also offers technical features such, as easy-peel technology, allowing **quick and efficient removal**.

NOVACEL ASSETS

- Premium quality for high visual aspect
- Fast and effortless unwinding
- Perfect match with specific coating
- Specific and stable adhesion systems



NOVACEL PREMIUM SOLUTION, EASY-PEEL:

The Easy-Peel range is a historic innovation by Novacel. It is designed to provide **extremely fast and effortless removal**. With our Easy-Peel grades, the faster you peel, the easier it is to peel off the film. The peel goes readily from smoothy to sticky and slippy.

In addition to improved performance, you can **protect your workers from musculoskeletal disorders (MSD)** by making unwinding pain free. Novacel Easy Peel films, such as **4800 & 4254**, offer the perfect solution right up to the end of the production line with no compromise to adhesion during the manufacturing process.

With Novacel Easy Peel films, you can experience a value-added solution that simultaneously preserves your pre-coated metals and your people!



Grade	Thickness (µm/mils)	Adhesion	Outdoor resistance	Colors	Specific features
4800	50µm / 2 mils	Medium high	6 months	Clear transparent	For smooth, glossy, lightly structured and semi matt surfaces. Exists in yellow and blue version.
4274	70µm / 2.3 mils	Medium high	6 months		For smooth, glossy, lightly structured and semi-matt surfaces
4801	80µm / 3.2mils	High	12 months		
4294	80µm / 3.2 mils	Medium high	12 months		

— FILMS FOR GENERAL INDUSTRY

The coating process for pre-painted metals enhances the metal's appearance and durability, making it suitable for a wide range of general industrial applications. It can be used in a vast array of applications: industrial machine casings, industrial boilers, air conditioning, sanitary applications, the food industry and more. Pre-painted metal is also used in the manufacture of covers and protective enclosures for various industrial machines.

In every case, pre-painted metal is considered as an ideal solution for **protection against environmental factors** and the **creation of hygienic and resistant products**, providing a **high quality**

and robust finish. Thanks to its in-depth knowledge of the market and its specific features, and in partnership with our customers' R&D laboratories, Novacel has developed appropriate, high-quality solutions for your surfaces. Novacel films support pre-painted metal surfaces throughout the manufacturing and shaping process. On site, during installation, Novacel's process film also helps **preserve all the advantages of pre-painted metals right up to delivery to the end customer.**

In this way, Novacel ensures the **longevity of the technical properties** of pre-coated metals.

NOVACEL ASSETS

- Specific, stable adhesion systems
- Optimal resistance to mechanical and thermal processes
- Significant worldwide outdoor resistance (1 to 12 months)
- No impact on the surface

OUR ECO-RESPONSIBLE SOLUTION, OXYGEN 3000:

- Uses 30% vegetal oil waste
- -31% CO² emission reduction with 0.160 kg CO²/m²
- 100% recyclable





Grade	Thickness (µm/mils)	Adhesion	Outdoor resistance	Color	Specific features
4155	45µm / 1.8 mils	High	6 months	Clear transparent	For very rough and matt surfaces
9383	45µm / 1.8 mils		3 months		Olympeaks film - for embossed and matt surfaces
4333	50µm / 2 mils	Medium high	6 months		For smooth/glossy, lightly structured and semi-matt surfaces.
9384	83µm / 3.3 mils	Ultra high	3 months		Olympeaks film - for matt and very rough surfaces

— FILMS FOR SIGNAGE AND COMMUNICATION

Pre-painted metal is a popular choice for signage and communication applications due to its **durability, versatility and aesthetic appeal**, offering a wide range of customization options to meet specific needs and branding requirements. It can be easily cut and shaped to create customized signage and communication products.

Novacel films offers a range of benefits, that can help preserve the materials during all manufacturing steps until installation, and long-term use.

We develop **high-resistance films to prevent deterioration of the paint and graphics** on the signage due to prolonged exposure to sunlight, and other weather conditions.

We are also committed to providing you with solutions that are **easy to remove** without leaving residue or damaging the underlying paint.

This simplifies the installation process and ensures a **perfect finish**.

Overall, Novacel solutions offer you a cost-effective and practical solution for **preserving the integrity and appearance** of these materials throughout their lifecycle.

NOVACEL ASSETS

- Resistance to environmental conditions
- Specific, stable adhesion systems
- Optimal resistance to mechanical processes
- Significant worldwide outdoor resistance (1 to 12 months)
- Fast, effortless unwinding and easy removal



Grade	Thickness (µm/mils)	Adhesion	Outdoor resistance	Colors	Specific features
4800	50µm / 2 mils	Medium high	6 months	Clear transparent	For smooth, glossy, lightly structured and semi-matt surfaces
4254	50µm / 2 mils	Very high	6 months	Black and white	For smooth, glossy, lightly structured and semi-matt surfaces
4233	70µm / 2.8 mils	Medium	6 months		For smooth, glossy, lightly structured and semi-matt surfaces
3000	70µm / 2.8 mils	Medium	6 months		Oxygen Vegetal grade Rubber film - for smooth / glossy, lightly structured and semi-matt surfaces



— NOVACEL TAPES

Whether you are producing or shipping pre-coated metals, secure attachment of metal coils with **reliable tapes is essential for the safety of your personnel and the protection of your products.**

Novacel has developed a range of **technical tapes** for high tensile strength and long elongation in order to **avoid lift-up or tearing during handling.**

NOVACEL ASSETS

> **Metal coil end tabbing tapes:** a single-sided adhesive range offering strong adhesion and high tensile strength to secure metal coils that is easy to remove and leaves no residue on coils

> **Metal overlap splicing tapes:** a double-sided adhesive tape with heavy stress and high temperature resistance, offering high efficiency for metal-manufacturing processes

> **Metal butt splicing and coil core starting tapes:** a high adhesive single-sided reinforced range offering maximum efficiency for metal splicing and coil core starting applications



Grade	Color	Carrier/backing	Type of adhesive	Total thickness (µm)	PAL/A	Tensile Strength (daN/cm)	Removability
BN6489	Black	MOPP	/	100	300	28MD*	*
BN6490	Blue	MOPP	/	110	250	30MD*	***
BN811	Transparent	PET	Acrylic Solvent	90	400	/	No
BN53	Green	PET	Silicone	80	300	/	**
BN6440 (mono-oriented)	Transparent	PP reinforced	/	130	1000	25 MD*	No
BN6441 (cross weave)	Transparent	PP reinforced	/	130	1000	27 MD*	No

*MD : Machine Direction

— LAMINATION MACHINES

With its Omma and Walco brands, **Novacel Special Machines (NSM)** proposes the **ultimate lamination technology** dedicated to the pre-coated metals industry based on long experience and know-how with innovative, often exclusive and always reliable solutions.

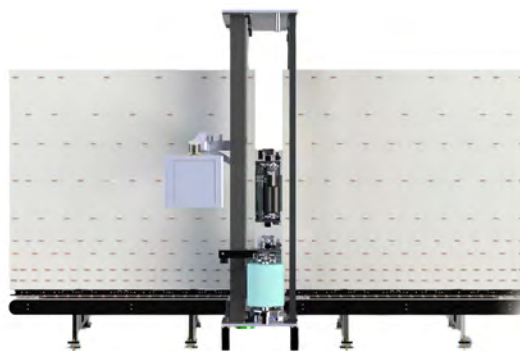
Our **Laminators** ensure easy and fast lamination, as well as wrinkle and bubble-free film on any size and any flat surface. They can be used both on a production line or as a standalone unit and can be equipped with either manual or automatic cutting technology.



TX precision: Horizontal Laminator



Pro-jet: Horizontal Laminator



VX Smart: Vertical Laminator

NOVACEL ASSETS

- > **TX Precision**, an in-line or off-line laminator with a high-precision automatic cutting system, designed and patented for the application of films on pre-coated metals surfaces
- > **Pro-jet**: standard application machines with manual cutting
- > **VX Smart**: a standalone vertical laminator with a single application of the process film on pre-coated metals surfaces
- > **Services**: installation and startup, maintenance, troubleshooting and software updates

Lamination	Machine	Standard dimension	Thickness	Film application	Lamination Characteristics	Specificities
Horizontal	TX precision	Widths: 1,400mm (55") up to 1,700mm (67")	4mm (0.16") up to 80mm (3.1")	Single or double-sided	Precise film application	- Automatic length detection - Automatic cut
Horizontal	PRO-JET	Widths: 1,400mm (55") up to 3,300mm (132")	5mm (0.2") up to 80mm (3.1")	Single or double-sided	Suitable for low/medium batch production	- Entry-level applicator - Manual cut
Vertical	VX Smart	Minimal linked to the film roll size – Up to 3,000 mm (118")	4mm (0.16") up to 80mm (3.2")	Single	Standalone vertical laminator	- WALCO® patent on film positioning and cutting system - Entry-level machine - Reduced footprint (Length about 7 m)

BENEFIT FROM NOVACEL SERVICES TO

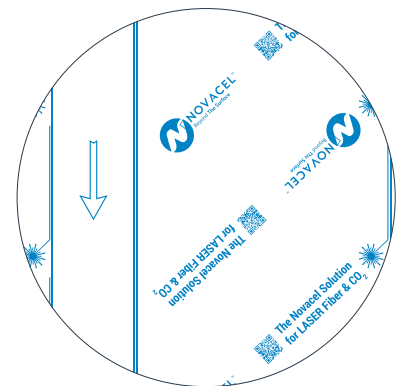


PRODUCT RECOMMENDATION

Benefit from Novacel expertise: choose the best solution for your materials and surfaces, make your processes even more efficient and your carbon impact even lower. A whole team is dedicated to product recommendations to make sure your expectations are satisfied more effectively, and this applies in all four corners of the world.

YOUR COMMUNICATION

Enhance the visibility of your brand with printed films. The printing is done in our factories in a range of colors. They comply with your requests: logo and brand name, technical guidance, slogan or any statement.



PRODUCT CUSTOMIZATION

Thanks to our numerous service centers worldwide, we can deliver our solutions anywhere on the planet. Thanks to our network of service centers, we are able to deliver products ready for widthing as close as possible to our customers. Cutting and rewinding machines allow us to convert our rolls to any required width. Dedicated experts are available at all our locations to support you.

PACKAGING CUSTOMIZATION

Novacel is keen to ensure that you receive our products in the condition in which they left our site. With this objective in mind, we pay close attention to the packaging of our products. Adapting them to perfectly match the required conditions, we handle every stage in delivery: road, maritime, air transportation or special storage, using the right packaging appropriate to meet all safety standards. If you have a specific request, contact us and we will look into it with you.



EASE YOUR BUSINESS



TECHNICAL SUPPORT

In order to help you enhance the quality of your products, a dedicated team at Novacel will do everything in their power to assist you. Our team of experts is available at all times to respond to your queries and requests and help you define the best solution right up to final implementation, including determination of the adjustment settings for your application machinery.

RECYCLING SUPPORT

As a fully committed company, we work not only on the product, but also on its life cycle as a whole, including end-of-life. Over 95% of Novacel's foils are designed to be recyclable. Our current objective is to help our customers recycle their film remnants. We propose solutions in several countries - go to our website www.novacel-solutions.com/services to find the right contact for you.



CUSTOMER PORTAL

Need to get information outside of working hours? Go online to our new customer portal www.my.novacel.world and review online all your account activities with just a few clicks*: detailed Novacel order history, order status, product info, requests, bills.

*for direct customers only

**For more information or any request, please contact us:
contact@novacel-solutions.com**

— FIND YOUR MATCH

PROTECTIVE & PROCESS FILMS

Grade	Thickness (µm/mils)	Adhesion	Outdoor resistance	Color	Specific features
4152	28 µm / 1.1 mils	Medium high	3 months	Clear transparent	For smooth, glossy and lightly structured building surfaces
3120	28 µm / 1.1 mils	Medium-high	3 months	Clear transparent	Oxygen Recycled grades For smooth, glossy and lightly structured building surfaces
3186	30 µm / 1.3 mils				
3100	33 µm / 1.3 mils				
9371	35 µm / 1.4 mils	Very high	3 months	Clear transparent	For lightly structured, matt and embossed surfaces
9383	45 µm / 1.8 mils	High			Olympeaks film - for embossed and matt surfaces
9042	33 µm / 1.3 mils	Medium			Anti-coil collapsing film
9373	50 µm / 2.0 mils	Medium high	6 months	Black and white	Rubber film for glossy, lightly structured and semi-matt surfaces
9082	70 µm / 2.8 mils	High		Clear transparent	Anti-coil collapsing film
4228RLN	100 µm / 3.9 mils			Black and grey	Low noise and fiber laser film
4273	105 µm / 4.1 mils	Ultra High	6 months	Clear transparent	Rubber Olympeaks film - for rough and matt surfaces
4254	50µm / 2 mils	Medium high			For smooth, glossy and semi-matt surfaces
4233	70µm / 2.8 mils	Medium	6 months	Black and white	Rubber film - for smooth, glossy, lightly structured and semi-matt surfaces
3000	70µm / 2.8 mils	Medium	6 months	Black and white	Oxygen Vegetal grade Black and white film. For smooth / glossy, lightly structured and semi-matt surfaces
4224	100 µm / 3.9 mils	Very high	12 months	Black and white	For smooth, glossy, matt and rough surfaces
4800	50µm / 2 mils	Medium high	6 months	Clear transparent	For smooth, glossy, lightly structured and semi matt surfaces. Exists in yellow and blue version.
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LAMINATION MACHINES

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Vertical	VX Smart	Minimal linked to the film roll size – Up to 3,000 mm (118")	4mm (0.16") up to 80mm (3.2")	Single	Standalone vertical laminator	- WALCO® patent on film positioning and cutting system - Entry-level machine - Reduced footprint (Length about 7 m)

TECHNICAL TAPES

Grade	Color	Carrier/backing	Type of adhesive	Total thickness (µm)	PAL/A	Tensile Strength (daN/cm)	Removability
BN6489	Black	MOPP	/	100	300	28MD*	*
BN6490	Blue	MOPP	/	110	250	30MD*	***
BN811	Transparent	PET	Acrylic Solvent	90	400	/	No
BN53	Green	PET	Silicone	80	300	/	**
BN6440 (mono-oriented)	Transparent	PP reinforced	/	130	1000	25 MD*	No
BN6441 (cross weave)	Transparent	PP reinforced	/	130	1000	27 MD*	No

*MD : Machine Direction

A formal approval process by Novacel experts is imperative before using our solutions.

For more grades or information, please refer to your sales representative.



Novacel is a long-term and active member of the European Coil Coating Association (ECCA) and has also several partnerships with customers' R&D laboratories.



www.novacel-solutions.com

