

A Low-Cost Solution to an Expensive Problem

repels™ Specialty Laminates by OMNOVA Solutions are new, light-gauge 1.75-mil films that provide superior water holdout compared to standard paper laminates. Because of their moisture resistance, they help avoid unsightly – and expensive – water damage. They're virtually impervious to water. There's no resulting grain raise, swelling or damage when exposed to moisture, so they're an ideal choice for kitchen and bath cabinets, trim, and moldings – anywhere there is an increased potential for water damage. Plus, they provide an appearance similar to that of HPLs, but at a much lower cost. **repels** Specialty Laminates can be flat laminated or profile wrapped.

repels Specialty Laminates are available in a virtually unlimited array of prints and colors – including the same woodgrains and patterns found in OMNOVA's popular Paper Laminates portfolio. They also can be specified with optional backings and embossings to meet your aesthetic and performance needs.

Applications

- Kitchen and bath cabinets
- Trim and molding
- Recreational vehicle cabinets and interior fixtures

Options*

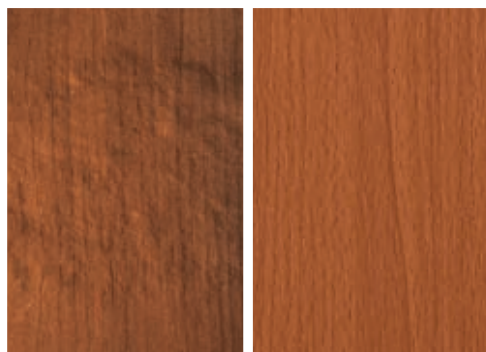
EMBOSSINGS

- Stipple
- Light woodgrain tick
- Deep woodgrain tick
- Ash woodgrain

BACKINGS

- Brown kraft
- Tinted kraft
- White kraft
- Nonwoven scrim

* All embossings are available in combination with all optional backings with the exception of the deep woodgrain tick emboss which is only available unbacked.



Left: Standard paper laminate after 24 hours of exposure to moisture (a damp sponge). **Right:** OMNOVA's **repels™** Specialty Laminate after the same 24 hours of exposure – still like new!

Benefits

MOISTURE RESISTANCE

Vinyl construction makes **repels** Specialty Laminates virtually impervious to water – provides superior water holdout compared to standard paper laminates. Helps avoid unsightly – and expensive – grain raise.

BREADTH OF DESIGN

Select from a wide variety of popular woodgrain and abstract patterns. Add optional embossings for an enhanced appearance.

REVERSE PRINT

Reverse printing provides greater print fidelity, plus an added measure of durability and protection against abrasion, scratching and marring of the pattern imprint compared to top-printed polypropylene films and lightweight papers.

DURABILITY

Vinyl construction provides a longer-lasting appearance, and better scratch and abrasion resistance than paper. Optional backings provide added performance and production advantages.

CLEANABILITY

Easy clean-up with soap and water. Stands up to frequent and repeated cleanings.

TECHNICAL EXPERTISE

Experienced associates can provide technical product information to assist you in your laminate selection. Field technical support can help process start-up and troubleshooting.

TECHNICAL SPECS

repels™ Specialty Laminates by OMNOVA Solutions

DIMENSIONS

Film Thickness.....	1.7 mil - 23 mil (0.0017" - 0.0023")
Tolerance.....	+/- 5.0%
Standard Film Width.....	50" and 62"
Tolerance.....	+/- 0.125"
Roll Lengths (Linear Yards).....	500

PHYSICAL PROPERTIES

	Typical Test Results	Comments
Opacity	70 to 85	Dependent on number of ink stages
Gloss	15, ± 5	60-degree gloss meter
Abrasion Wear Index	Initial: 150 to 225 cycles At 50%: 250 to 300 cycles	Taber S42 (180 grit) at 500 g
Tape Release	No squares pulled in 100	3M #600
MEK Resistance	Slight surface distortion	50 double rubs
Scratch Resistance	> 500 g	Modified Hoffman tester
Shrinkage	< 10% MD and < 1.5% CD	10 minutes at 100°F
QUV Lightfast	No change at 200 hours	UV-A 351

STAIN RESISTANCE

Staining Agent	Typical Test Results	Comments
Vinegar	No appreciable discoloration or stain	24 hour test
Lemon Juice	No appreciable discoloration or stain	24 hour test
Orange Juice	No appreciable discoloration or stain	24 hour test
Grape Juice	No appreciable discoloration or stain	24 hour test
Tomato Catsup	No appreciable discoloration or stain	24 hour test
Coffee	No appreciable discoloration or stain	24 hour test
Olive Oil	No appreciable discoloration or stain	24 hour test
100 Proof Alcohol	No appreciable discoloration or stain	24 hour test
5% Detergent Solution	No appreciable discoloration or stain	24 hour test
Mustard	No appreciable discoloration or stain	One hour test

Stain Test Conditions:

3 cc of staining agent were applied at room temperature in a horizontal position and allowed to stand. Laminating method, laminating adhesive, type of substrate, product handling and use environment can affect test results.

Care and Maintenance:

To maintain laminate appearance and performance, OMNOVA recommends that all oils, food, liquids and other substances be promptly removed from the surface with a soft, moist cloth. Liquids like acetone, MEK, paint thinner, oven cleaner and similar products, which contain solvents or harsh chemicals, may damage the product and should be avoided.

Laminate Selection:

Though our laminates can be used in many applications, all laminates are sold with the understanding that customers will make their own independent determination whether a particular laminate has the durability and other performance attributes required for the specific end use laminate application – not all laminates are suitable for all applications.

For the latest designs, more information, or to order, contact OMNOVA Solutions:

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