

3D Laminates by OMNOVA Solutions

3D Laminates by OMNOVA Solutions – also known as rigid thermofoils (RTF) – can be membrane-pressed or vacuum-formed to contoured surface profiles. Their dimensional flexibility eliminates the need for T-molding, edgebanding, visible seams and special edge treatments.

A wide selection of patterns and designs includes solid colors, realistic woodgrains and abstract patterns.

Applications

- Cabinet doors
- Drawer fronts
- Desks
- Furniture components
- Store and display fixtures
- Exterior furniture and surfaces
- Counters and shelving

Benefits

DIMENSIONAL FLEXIBILITY

Easily conform to three-dimensional surfaces. Provide an attractive, seamless appearance well suited for cabinet doors and drawer fronts.

DURABILITY

Abrasion and scratch resistant provides a long-lasting “like-new” appearance.

CLEANABILITY

Easy clean-up – usually with just soap and water.

CUSTOMIZABLE

You can vary colors, patterns and embossings to quickly and easily create unique or differentiated products. To help you, OMNOVA offers our experienced, full service approach to custom design and production.

TFM COLOR MATCHING

Our [TFM Color Matching Program](#) identifies which of our 3D Laminates closely approximates the color of a number of popular thermally fused melamines (TFM) available on today’s market. To download a copy of our current 3D Laminate Color Match Reference Guide, visit:

www.omnova.com/products/laminates/3d_match.aspx.

TECHNICAL CAPABILITY

Our experienced associates can provide technical product information to assist you with your laminate selection. In addition, OMNOVA offers field technical support to aid process start-up and troubleshooting.

AVAILABILITY

STOCK products are available in low minimum order quantities for shipment typically within two business days. MAKE-TO-ORDER products are not maintained in inventory but can be produced and shipped in as little as three to four weeks. OMNOVA’s domestic production eliminates the long leadtimes caused by off-shore supply and helps reduce product development cycle times.

TECHNICAL SPECS

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DIMENSIONS

Usable Film Widths*	53"
Tolerance	+/- 0.5"
Film Thickness	8 - 16 mil (0.008 - 0.016")
Tolerance	+/- 5.0%
Roll Lengths (Linear Yards)	50 and 250

* Actual film width is wider.

TYPICAL PROPERTIES

Test Name	Value
Hoffman Scratch	1700 g
Burnish*	9 Wipes
Coating Adhesion	100%

* Burnish Keys: 10 = No burnish. 9 = Slight burnish. 8 = Moderate burnish. 7 = Severe burnish. Not removed by alcohol wipe.

STAIN RESISTANCE

(LD 3.4 2000)

Test Material	Cleaning Steps						Score	Stain Resistance
	0	1	2	3	4	5		
Distilled Water	-	-	-	-	-	-	0	N
Ethyl Alcohol / Water (50:50)	-	-	-	-	-	-	0	N
Acetone	1	1	1	1	1	-	5	M
Household Ammonia	-	-	-	-	-	-	0	N
Citric Acid 10%	-	-	-	-	-	-	0	N
Vegetable Oil	-	-	-	-	-	-	0	N
Coffee	-	-	-	-	-	-	0	N
Tea	1	-	-	-	-	-	1	N
Tomato Ketchup	1	-	-	-	-	-	1	N
Mustard	1	1	-	-	-	-	2	N
10% Iodine	1	1	-	-	-	-	2	N
Black Permanent Marker	1	1	1	-	-	-	3	N
#2 Pencil	1	-	-	-	-	-	1	N
Wax Crayon	1	1	-	-	-	-	2	N
Black Shoe Polish	1	1	-	-	-	-	2	N

Total 19

KCMA CHEMICAL RESISTANCE (9.3)

Test Material	Results*
Vinegar	No Effect
Lemon Juice	No Effect
Grape Juice	No Effect
Orange Juice	No Effect
Tomato Ketchup	No Effect
Coffee	No Effect
Olive Oil	No Effect
Alcohol, 100 Proof	No Effect
Detergent Solution	No Effect
Mustard	Moderate Effect

* Results:

No Effect = No discoloration or stain after cleaning immediately with water.
Moderate Effect = Slight stain or discoloration apparent after cleaning.
Severe Effect = Definite stain after cleaning, remaining after 14 days.

Cleaning Steps

See NEMA LD3 2000 for full description.
0 = Removed with water.
1 = 25 cycles spray cleaner or sponge.
2 = 25 cycles baking soda plus spray cleaner on brush.
3 = Acetone and cotton ball.
4 = Bleach plus cotton ball.
5 = Not Removed.

Stain Resistance

See NEMA LD3 2000 for full description.
N = No Effect.
M = Moderate Effect. Difficult to perceive stain.
S = Severe Effect. Easily perceive stain or damage to surface.

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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