

# radiance™ Flat Laminates

by OMNOVA Solutions



# PRODUCT DESCRIPTION

**radiance™** Flat Laminates by OMNOVA Solutions feature a high-temperature formulation which allows them to be hot-laminated to metal and plastic substrates. Their high-specification formulation provides gloss level, embossing, and color consistency. In addition to hot lamination, **radiance** Flat Laminates can also be flat-laminated or profile-wrapped to wood substrates.

The selection of **radiance** Flat Laminates includes numerous patterns, designs and embossings. Custom styling and treatments are also available upon request.

## Applications

Metal and Plastic Based:

- Cabinets
- Fixtures
- Components
- Appliance Parts
- Doors
- Signage
- Sub-Assemblies

## Benefits

### HEAT TOLERANT

**radiance** Flat Laminates can be flat-laminated to metal substrates using a high temperature lamination process, or “nipped” onto plastic substrates during high temperature co-extrusion processes.

### DURABILITY

Extra level of abrasion and scratch resistance to maintain that “like-new” appearance.

### CLEANABILITY

Easy clean-up – usually with just soap and water. High temperature coating prevents staining from common substances.

### CUSTOMIZABLE

You can vary colors, designs and embossings to quickly and easily create unique or differentiated products. You can also achieve various functional and decorative effects by choosing from several performance coatings. To help you, OMNOVA offers our experienced, full service approach to custom design and production.

### QUICK AVAILABILITY

A large selection of STOCK products are available in low minimum order quantities and are typically available for shipment within two business days. Custom products can be available in as little as four weeks. Domestic production eliminates the long lead time caused by off-shore supply and helps reduce product development cycle times.

### 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.

# TECHNICAL SPECS



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### DIMENSIONS

Standard Film Width.....	50"
Tolerance.....	+/- 0.125"
Film Thickness.....	.8 - 10 mil (0.008" - 0.010")
Tolerance.....	+/- 5.0%
Roll Lengths (Linear Yards).....	500

### TYPICAL PROPERTIES

Test (Method)	Laminate Construction	
	Single-Ply	Two-Ply
Abrasion Resistance (ASTM D 1044)		
CS 17 1000 g / 1000 cycles	8.3 mg	1.3 mg
CS 10 250 g / 100 cycles	No weight loss	No weight loss
Gloss Retention (LAB 059) – 8 minutes @ 163° C	Minimal Gloss Change	Minimal Gloss Change
Embossing Retention (LAB 059) – 8 minutes @ 163° C	Minimal Embossing Change	Minimal Embossing Change
Stress Whitening (LAB 057) – 50% elongation	Minimal Stress Whitening	Minimal Stress Whitening
Blocking (LAB 060)	No Effect	No Effect
Croaking (LAB 058 / AATCC Method 8)	None	None
Light Stability (QUV 351 / QUV 340) – 150 hours	Minimal Color Change	Minimal Color Change

Actual results will vary dependent on construction, topcoating and embossing. Additional constructions available upon request.

### STAIN RESISTANCE

(NEMA LD 3.4 2000)

Staining Agent	Cleaning Steps   Stain Resistance			
	Laminate Construction			
	Single-Ply		Two-Ply	
Distilled Water	0	N	0	N
Ethyl Alcohol / Water (50:50)	0	N	0	N
Acetone	5	S	5	S
Household Ammonia	0	N	0	N
Citric Acid 10%	0	N	0	N
Vegetable Oil	0	N	0	N
Coffee	0	N	0	N
Tea	0	N	0	N
Tomato Ketchup	0	N	0	N
Mustard	5	M	5	M
10% Iodine	4	N	1	N
Supermarket Stamp Ink	0	N	3	N
#2 Pencil	2	N	2	N
Wax Crayon	2	N	2	N
Shoe Polish	5	S	5	S
<b>Total Cleaning Score</b>	<b>23</b>		<b>23</b>	

Actual result may vary dependent on color – lighter shades are more susceptible to staining. Additional constructions available upon request.

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.**

#### 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.

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

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