

**surf(x)<sup>®</sup>** 3D Laminates by OMNOVA Solutions, provide a highly flexible surface, which allows them to be membrane-pressed or vacuum-formed to achieve continuous multi-dimensional surface profiles - eliminating the need for T-molding, edgebanding, visible seams and special edge treatments. Elimination of seams helps mitigate the accumulation of potential contaminants and simplifies cleaning.

**surf(x)** 3D Laminates provide an increased level of impact, scratch, marring, chemical and abrasion resistance when compared to standard thermofoils. Their increased stain and impact resistance make them especially suited for horizontal and vertical surfaces - such as retail fixtures, work surfaces, counters and table tops.

## Applications

- Cabinet doors & drawer fronts
- Closet systems
- Desks & furniture components
- Store fixtures
- Table tops
- Chair seats & backs

## Markets

- RV
- Retail
- Healthcare
- Food service
- Commercial office
- Hospitality

## Benefits

### INCREASED DURABILITY

**surf(x)** 3D Laminates offer our highest level of durability. They also deliver increased resistance to impact, abrasion, marring and scratching.

### 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 resistance provide a long-lasting "like-new" appearance.

### CLEANABILITY

Easy clean-up – usually with just soap and water. Can be safely cleaned and disinfected with many cleaners and disinfectants. Visit: [www.omnova.com/products/laminates/surf\\_x.asp](http://www.omnova.com/products/laminates/surf_x.asp) for additional information.

### CUSTOMIZABLE

You can specify 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.

### TFL COLOR MATCHING

OMNOVA's TFL Color Matching Program identifies which of our 3D Laminates closely approximates the color of a number of popular thermally fused laminates (TFL) available in today's market. To download a copy of our current Laminate Color Match Reference Guide, visit: [www.omnova.com/laminates-matches.aspx](http://www.omnova.com/laminates-matches.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. MAKE-TO-ORDER products are not maintained in inventory but can be custom ordered. OMNOVA's domestic production eliminates the long lead times caused by off-shore supply and helps reduce product development cycle times.

# TYPICAL PROPERTIES



surf(x)<sup>®</sup>  
3D Laminates  
by OMNOVA Solutions

## PRODUCT INFORMATION

Usable Film Widths*	50", 57" and 62" (+/- 0.5")
Film Thickness	8 - 16 mil (0.008 - 0.016") (+/- 5.0%)
Roll Lengths	50 and 250 linear yards

\* Actual film width is wider

## TYPICAL PROPERTIES COMPARISON

Test Method	surf(x)	HPL
Hoffman Scratch	1300 g	1000 g
Burnish	None / Slight	Slight
MEK Double Wipes	< 50	> 100
NEMA Wear (initial)	750 cycles	300 cycles
NEMA Cleanability	13 / 17** (see below)	10
NEMA Ball Impact	3000 mm	1100 mm
NEMA Boiling Water	None / Moderate	None

## KCMA CHEMICAL RESISTANCE (9.3)

Staining Agent	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.

## STAIN RESISTANCE\*\* (See NEMA LD 3-2005 for full description.)

Cleaning Step Description (In order of use)	Staining Agent	Required Cleaning Step to Remove Stain	
		Printed	Solid
0 - Removed with water	Distilled Water	0	0
	Ethyl Alcohol / Water (50:50)	0	0
1 - 25 cycles spray cleaner or sponge	Acetone	5	5
	Household Ammonia	0	0
	Citric Acid 10%	0	0
	Vegetable Oil	0	0
	Coffee	0	0
2 - 25 cycles baking soda plus spray cleaner on brush	Tea	0	0
	Tomato Ketchup	0	0
	Mustard	0	3
3 - Acetone and cotton ball	10% Iodine	0	2
	Black Permanent Marker	2	0
4 - Bleach plus cotton ball	#2 Pencil	2	2
	Wax Crayon	2	2
	Black Shoe Polish	2	2
	Total NEMA Cleanability Score	13	17

\*\* Actual results may vary depending on color - lighter shades are more susceptible to staining.

Though OMNOVA 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 place an order, contact OMNOVA Solutions:  
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