

surf(x)<sup>®</sup> 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, edgbanding, visible seams and special edge treatments.

surf(x) 3D Laminates provide a higher level of durability than standard thermofoils. With added impact, marring and abrasion resistance as well as improved stain resistance, they are suitable for use on many horizontal surfaces, such as counters, tabletops and work surfaces.

A broad design selection includes solid colors, realistic woodgrains and abstract patterns.

## Applications

- Work surfaces
- Desks
- Furniture components
- Store and display fixtures
- Table and counter tops
- Counters and shelving

## 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, drawer fronts and horizontal work surfaces.

### 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/HPL COLOR MATCHING

Our [TFM/HPL Color Matching Program](#) identifies which of our surf(x) 3D Laminates closely approximates the color of a number of popular High Pressure Laminates (HPL) and Thermally Fused Melamines (TFM) available on today's market. To download a copy of our current surf(x) 3D Laminate Color Match Reference Guide visit:

[www.omnova.com/products/laminates/surfx\\_match.aspx](http://www.omnova.com/products/laminates/surfx_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



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

### TYPICAL PROPERTIES COMPARISON

Test	HPL	surf(x)
Burnish Mar	Moderate	None / Slight
Hoffman Scratch	400 g	1000 g
MEK Double Wipes	> 100	> 50
NEMA Wear	400 cycles	1,400 cycles
NEMA Stain		
Stain 1-10	No Effect	Moderate
Stain 11-15	Slight	No Effect
NEMA Cleanability	10	13 - 25*
NEMA Ball Impact	50" (HGS) 20" (VGS)	> 118"
NEMA Boiling Water	None	None / Moderate

\* Actual value varies depending on selection of color sample.

### 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, but outer edges of finished width may not be coated or printed.

### EMBOSSING/GLOSS COMPARISON

Typical Embossing	OMNOVA Gloss Designation
E-13 (smooth)	G-30 and G-50
E-11 (light texture)	G-50 and G-70
E-743 (medium texture)	G-50 and G-70

### STAIN RESISTANCE

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	-	-	-	-	-	-	0	N	
Tomato Ketchup	-	-	-	-	-	-	0	N	
Mustard	-	-	-	-	-	-	0	N	
10% Povidone Iodine	-	-	-	-	-	-	0	N	
Black Permanent Marker	1	1	-	-	-	-	2	N	
#2 Pencil	1	1	-	-	-	-	2	N	
Wax Crayon	1	1	-	-	-	-	2	N	
Black Shoe Polish	1	1	-	-	-	-	2	N	

Total 13

#### 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:

866.332.5226  
 laminates@omnova.com  
 www.omnova.com/laminates



OMNOVA Solutions Inc. • 175 Ghent Road • Fairlawn, OH 44333  
 Telephone: 330-869-4200 • www.omnova.com

ALL OMNOVA PRODUCTS AND SERVICES ARE OFFERED AND SOLD SUBJECT TO THE OMNOVA STANDARD TERMS AND CONDITIONS OF SALE AGREEMENT SET FORTH AT WWW.OMNOVA.COM  
 SURF(X) is a registered trademark and SHAPING THE FUTURE is a trademark of OMNOVA Solutions Inc.  
 © 2008 OMNOVA Solutions Inc.  
 DLMKT0501, Rev. 07/08