

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



# PRODUCT DESCRIPTION

**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. Pressed **surf(x)** 3D Laminates can simulate the look of raised panel, jointed, and routed constructions.

Designed with advanced durability, **surf(x)** 3D Laminates provide an increased level of impact, scratch, marring, heat, and abrasion resistance compared to standard thermofoils. Their increased stain and impact resistance make them especially suited for horizontal and vertical surfaces – such as work surfaces, counters, and tables.

OMNOVA offers our **surf(x)** 3D Laminates in a wide selection of patterns and designs – including solid colors, realistic woodgrains, and abstract patterns.

## Applications

- Cabinet Doors
- Drawer Fronts
- Works Surfaces
- Desks
- Furniture Components
- Store and Display Fixtures
- Table and Countertops
- Counters and Shelving

## Benefits

### DIMENSIONAL FLEXIBILITY

Easily conform to various dimensional surface layers and edges for a continuous, seamless appearance to create aesthetically-appealing appearance and construction effects for a wide range of products, especially cabinet doors and drawer fronts.

### INCREASED DURABILITY

A higher level of durability than standard thermofoils offers increased resistance to impact, abrasion, marring, and scratching. The more durable construction provides a long-lasting “like-new” appearance while also helping the material to retain its shape longer.

### CLEANABILITY

Easy clean-up – usually with just soap and water. With proper care, a stain- resistance coating helps prevent common substances from leaving unsightly stains.

### QUICK AVAILABILITY

A large selection of designs are maintained as STOCK items for fast shipment typically within two business days. An expanded selection of MAKE-TO-ORDER items and large orders can also be produced and shipped in as little as four weeks. Our domestic production eliminates the lengthy leadtimes and complications of off-shore sourcing.

### CUSTOM VERSATILITY

When specific decorative and functional effects are needed, our experienced, full-service approach to custom design and production – along with the industry’s largest design and embossing library – gives clients the ability to quickly create unique, differentiated products.

### TECHNICAL CAPABILITY

The right laminate for the right application. Our experienced technical staff can help clients to select the proper laminate, provide technical guidance, and assist in production ramp-up to reduce machine downtime and product waste.



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# TECHNICAL SPECS



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### 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 20 in (VGS)	50 in (HGS)	>118 in
NEMA Boiling Water	None	None / Moderate

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

### DIMENSIONS

Usable Film Widths*	50", 53" and 62"
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. Actual widths are 52", 57" and 64" respectively.

### 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, it is important for customers to select a laminate with durability and other performance attributes that match to the requirements of the specific end-use application – not all laminates are suitable for all applications. Laminates used on exposed or horizontal surfaces of a product, for example, often require more durability than interior vertical surfaces. Customers should consider the OMNOVA Laminates Technical Specifications, processing requirements, the specific end-use environment and other application-specific factors when selecting appropriate laminates.

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

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