

# OVERLAMINATE

FILMS PORTFOLIO



Overlaminates that enhance overall graphic depth while protecting printed materials from UV radiation, environmental elements, moisture and abrasion.

## Overlaminates

Calendered vinyl, polycarbonate, polyester, and polyolefin options available to fit your specific application - *\*Laminate to similar substrates for the best results*

Choose from a range of finishes, including matte, gloss, luster, velvet, optically clear or textured options, to achieve the perfect blend of aesthetics and functionality

High-performing, permanent pressure-activated adhesives engineered to prevent common flaws in the laminating process like silvering, orange peeling and delamination

Excellent performance on flat or simply curved application surfaces

Unique options also available – UL 410 slip resistance and dry erase



**NEW** NextBond™ UV-cured, durable adhesive presents a robust, price effective, and eco-friendly alternative to traditional solvent-based adhesive for a long-term bond.



This logo represents Nekoosa's commitment to offering sustainable alternatives to traditional PVC materials. We're happy to offer PVC-Free options in this product line.

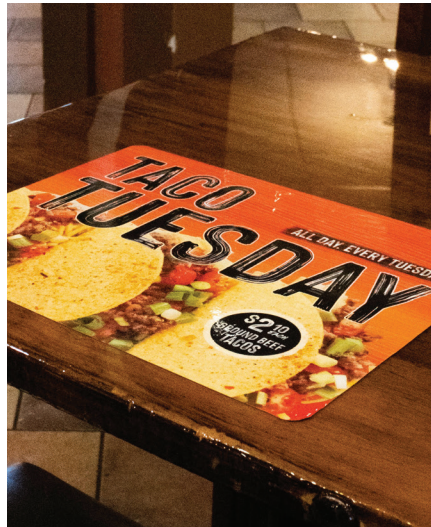
## Applications

- Flat & Simple Curves
- Printed Graphics
- Point-of-Purchase Displays
- Wall Graphics
- Window Graphics
- Floor Graphics
- Exhibits
- Trade Show Graphics
- Transit
- Displays
- Dry Erase Graphics
- Counter Mats
- Photographic Prints
- In-Store Signage



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## STOCKED PRODUCTS ▶

Finish/Color	SKU #	UV Protection	Size	Film Thickness	Adhesive	Liner
<b>Calendered Vinyl Overlaminates Films</b>						
Luster Clear	LM3LL5450 ●	•	54" x 50 yd	3.2 mil	Permanent	78# Paper
	LM3LL6050	•	60" x 50 yd			
Matte Clear	LM3MCL5450 ●	•	54" x 50 yd	3.2 mil	Permanent	78# Paper
	LM3MCL6050	•	60" x 50 yd			
Gloss Clear	LM3CL5450 ●	•	54" x 50 yd	3.2 mil	Permanent	78# Paper
	LM3CL6050	•	60" x 50 yd			
Gloss Optically Clear*	LM4CL5450	•	54" x 50 yd	4 mil	Permanent	PET
Embossed Clear*	LM6CE5450	•	54" x 50 yd	6 mil Semi-Rigid	Permanent	PET

\*LM4CL and LM6CE are UL 410 certified and suitable for interior floor graphics.

<b>Polycarbonate Overlaminates Films</b>						
Velvet Matte	5044550LM	•	51" x 50 yd	3 mil	Non-Yellowing Permanent Solvent	PET
	5044552LM	•	51" x 50 yd	5 mil	Non-Yellowing Permanent Solvent	PET
	5044553LM	•	51" x 50 yd	10 mil	Non-Yellowing Permanent Solvent	PET

<b>Polyester Overlaminates Films</b>						
Optically Clear	LM2CL5450		54" x 50 yd	2 mil	Permanent	PET
Optically Clear Dry Erase	LM1DE5450		54" x 50 yd	1 mil	Permanent	PET
	LM1DE6050		60" x 50 yd			

<b>Polyolefin Overlaminates Film</b>						
Embossed Clear	LMPP5450		54" x 50 yd	3 mil	Permanent	PET

\*LMPP5450 is UL410 certified and suitable for interior floor graphics

Finish/Color	SKU #	UV Protection	Size	Film Thickness	Adhesive	Liner
<b>NextBond™ - UV Cured, Long Term Durable Adhesive</b>						
Matte Vinyl	UVLM3MCL5450 ●	•	54" x 50 yd	3.2 mil PVC	Permanent	1.2 mil PET
Luster Vinyl	UVLM3LL5450 ●	•	54" x 50 yd	3.2 mil PVC	Permanent	1.2 mil PET
Optically Clear Gloss Vinyl	UVLM3CL5450 ●	•	54" x 50 yd	3.2 mil PVC	Permanent	1.2 mil PET
Optically Clear Gloss PET	UVLM1CL5450 ●		54" x 50 yd	1 mil PET	Permanent	1.2 mil PET



**NEKOOSA BUCKS**  
available in select rolls listed above.



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## CUSTOM SIZE OFFERING ▶

Finish/Color	SKU #	UV Protection	Size	Film Thickness	Adhesive	Liner	Wgt per MSI
<b>Calendered Vinyl Overlaminates Films</b>							
Luster Clear	LM3LL	•	54"/60"	3.2 mil	Permanent	78#	.41#
Matte Clear	LM3MCL	•	54"/60"	3.2 mil	Permanent	78#	.41#
Gloss Clear	LM3CL	•	60"	3.2 mil	Permanent	78#	.41#
Gloss Clear	LM4CL*	•	54"	4 mil	Permanent	PET	.30#
Embossed Clear	LM6CE*		54"	6 mil Semi-Rigid	Permanent	PET	.44#

\*LM4CL and LM6CE are UL 410 certified and suitable for interior floor graphics.

<b>Polyester Overlaminates Films</b>							
Gloss Clear	LM1CL		54"	1 mil	Permanent	PET	.25#
	LM2CL		54"	2 mil	Permanent	PET	.25#

<b>Polyolefin Overlaminates Film</b>							
Embossed Clear	LMPP		54" x 50 yd	3 mil	Permanent	PET	.21#

\*LMPP5450 is UL410 certified and suitable for interior floor graphics.

Finish/Color	SKU #	UV Protection	Size	Film Thickness	Adhesive	Liner	Wgt per MSI
<b>NextBond™ - UV Cured, Long Term Durable Adhesive</b>							
Matte Vinyl	UVLM3MCL5450	•	54"	3.2 mil PVC	Permanent	1.2 mil PET	.24#
Luster Vinyl	UVLM3LL5450	•	54"	3.2 mil PVC	Permanent	1.2 mil PET	.24#
Optically Clear Gloss Vinyl	UVLM3CL5450	•	54"	3.2 mil PVC	Permanent	1.2 mil PET	.24#
Optically Clear Gloss PET	UVLM1CL5450		54"	1 mil PET	Permanent	1.2 mil PET	.14#



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## TECHNICAL DATA ▶

Grade ▶	LM3LL	LM3MCL	LM3CL	LM4CL	LM6CE	▶ PC 3 mil	
<b>Physical Properties</b>							
<b>Finish</b>	Semi-Gloss	Matte	Gloss	Gloss	Textured	Velvet Matte	
<b>Color</b>	Clear	Clear	Clear	Clear	Clear	Clear	
<b>Adhesive</b>	Permanent - P22	Permanent - P22	Permanent - P22	Permanent - P92	Permanent - P92	Non-Yellowing Permanent Solvent	
<b>Film</b>	Calendered Vinyl	Calendered Vinyl	Calendered Vinyl	Calendered Vinyl	Embossed Rigid Vinyl	Clear Polycarbonate	
<b>Liner</b>	78# Release Liner	78# Release Liner	78# Release Liner	1.5 Clear PET	1.5 Clear PET	PET Liner	
<b>Opacity</b>	20% Maximum	20% Maximum	20% Maximum	20% Maximum	20% Maximum	12-18%	
<b>Gloss Level</b>	40-60%	8% Typical	75% Minimum	75% Minimum	12% Typical	9-12% Typical	
<b>Thickness</b>	Film	3.0 ± 0.2 mil	5.5 ± 0.2 mil	3.0 ± 0.2 mil	3.0 ± 0.2 mil	5.75 ± 0.2 mil	3.0 ± 0.2 mil
	Film + Adhesive	4.0 ± 0.2 mil	6.2 ± 0.2 mil	4.0 ± 0.2 mil	4.0 ± 0.2 mil	6.7 ± 0.2 mil	4.5 ± 0.2 mil
	Total Thickness	8.5 ± 0.4 mil	12.5 ± 0.4 mil	8.5 ± 0.4 mil	5.5 ± 0.4 mil	8.75 ± 0.4 mil	7.5 ± 0.4 mil
<b>Adhesion</b>	SS 15 min Room Temp Dwell	65 oz/in minimum	65 oz/in minimum	65 oz/in minimum	65 oz/in minimum	65 oz/in minimum	70 oz/in minimum
	SS 24 hr Room Temp Dwell	75 oz/in minimum	75 oz/in minimum	75 oz/in minimum	75 oz/in minimum	100 oz/in minimum	87 oz/in minimum
<b>Fire Rating</b>	ASTM E84 Class 1 or A	ASTM E84 Class 1 or A	ASTM E84 Class 1 or A	ASTM E84 Class 1 or A	ASTM E84 Class 1 or A	ASTM E84 Class 1 or A	

Grade ▶	▶ PC 5 mil	▶ PC 10 mil	▶ LM1CL	▶ LM2CL	▶ LM1DE	▶ LMPP	
<b>Physical Properties</b>							
<b>Finish</b>	Velvet Matte	Velvet Matte	Gloss	Gloss	Gloss	Embossed	
<b>Color</b>	Clear	Clear	Clear	Clear	Clear	Clear	
<b>Adhesive</b>	Non-Yellowing Permanent Solvent	Non-Yellowing Permanent Solvent	Permanent - P92	Permanent - P92	Permanent	Permanent	
<b>Film</b>	Clear Polycarbonate	Clear Polycarbonate	Optically Clear Polyester	Optically Clear Polyester	Optically Clear Polyester	Clear Polyolefin	
<b>Liner</b>	PET Liner	PET Liner	1.5 Clear PET	1.5 Clear PET	1.2 Clear PET	1.5 Clear PET	
<b>Opacity</b>	12-18%	12-18%	2% Typical	2% Typical	2% Typical	18% Maximum	
<b>Gloss Level</b>	9-12% Typical	9-12% Typical	Clear Polyester	Clear Polyester	Clear Polyester	18% Typical	
<b>Thickness</b>	Film	5.0 ± 0.2 mil	10 ± 0.2 mil	1.0 ± 0.2 mil	2.0 ± 0.2 mil	3.0 ± 0.2 mil	
	Film + Adhesive	6.5 ± 0.2 mil	12 ± 0.2 mil	2.0 ± 0.2 mil	3.0 ± 0.2 mil	2.0 ± 0.2 mil	4.2 ± 0.2 mil
	Total Thickness	8.0 ± 0.4 mil	13.5 ± 0.2 mil	3.5 ± 0.4 mil	4.5 ± 0.4 mil	3.2 ± 0.4 mil	5.6 ± 0.4 mil
<b>Adhesion</b>	SS 15 min Room Temp Dwell	70 oz/in minimum	70 oz/in minimum	40 oz/in minimum	40 oz/in minimum	45 oz/in minimum	65 oz/in minimum
	SS 24 hr Room Temp Dwell	87 oz/in minimum	87 oz/in minimum	50 oz/in minimum	50 oz/in minimum	60 oz/in minimum	75 oz/in minimum
<b>Fire Rating</b>	ASTM E84 Class 1 or A	ASTM E84 Class 1 or A	ASTM E84 Class 1 or A	ASTM E84 Class 1 or A	ASTM E84 Class 1 or A	-	

Grade ▶	UVLM3LL	UVLM3MCL	UVLM3CL	▶ UVLM1CL
<b>Physical Properties</b>				
<b>Finish</b>	Luster	Matte	Gloss	Gloss
<b>Color</b>	Clear	Clear	Clear	Clear
<b>Adhesive</b>	UV-Cured High-Tack, Permanent Clear	UV-Cured High-Tack, Permanent Clear	UV-Cured High-Tack, Permanent Clear	UV-Cured High-Tack, Permanent Clear
<b>Film</b>	3.2 mil Premium Calendered Vinyl	3.2 mil Premium Calendered Vinyl	3.2 mil Premium Calendered Vinyl	1.0 mil Clear Polyester
<b>Liner</b>	1.2 mil PET	1.2 mil PET	1.2 mil PET	1.2 mil PET
<b>Opacity</b>	10% Maximum	10% Maximum	10% Maximum	10% Maximum
<b>Gloss Level</b>	35% to 45%	10% Maximum	60% Maximum	120% Maximum
<b>Thickness</b>	Film	3.2 ± 0.2 mil	3.2 ± 0.2 mil	0.9 ± 0.1 mil
	Film + Adhesive	4.2 ± 0.4 mil	4.2 ± 0.4 mil	1.9 ± 0.3 mil
	Total Thickness	5.4 ± 0.5 mil	5.4 ± 0.5 mil	5.4 ± 0.5 mil
<b>Adhesion</b>	SS 15 min Room Temp Dwell	88 oz/in typical	88 oz/in typical	88 oz/in typical
	SS 24 hr Room Temp Dwell	118 oz/in typical	118 oz/in typical	118 oz/in typical

\*LM4CL, LM6CE, LMPP are UL410 slip resistant certified and only suitable for interior floor graphics.



The information provided herein is correct to the best of Nekoosa's knowledge. No liability for any errors, facts or opinions are accepted. Customers must satisfy themselves as to the suitability of this product for their application. No responsibility for any loss as a result of any person placing reliance on any material contained herein will be accepted.

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## TECHNICAL DATA ▶

Material ▶	Calendered Vinyl	Polycarbonate	Polyester	Polyester Dry-Erase
<b>Conditions for Use</b>				
Shelf Life	1 year	1 year	1 year	1 year
Outdoor Durability	Up to 4 years*	Up to 2 years	Not recommended for outdoor use	Not recommended for outdoor use
Min Application Temperature	40° F (4° C)	20° F (-7° C)	40° F (4° C)	50° F (10° C)
Service Temperature Range	-20° to 150° F (-29° to 66° C)	0° to 200° F (-18° to 93° C)	-20° to 225° F (-29° to 107° C)	-40° to 248° F (-40° to 120° C)
			If laminated over vinyl films -20° to 150° F (-29° to 66° C)	
Solvent/Chemical Resistance	Good for most petroleum solvents and lower aliphatic alcohols. For ultimate solvent resistance, edge sealing is recommended	Excellent	Good for most petroleum solvents and lower aliphatic alcohols. For ultimate solvent resistance, edge sealing is recommended	Resistant to: industrial window cleaner, isopropyl alcohol, hand sanitizer, household ammonia, oven cleaner
Water Resistance	Excellent	Excellent	Excellent	Excellent

Material ▶	Polyolefin	Calendered Vinyl w/NextBond™	Polyester w/NextBond™
<b>Conditions for Use</b>			
Shelf Life	1 year	1 year	1 year
Outdoor Durability	Not recommended for outdoor use	5 years	5 years
Min Application Temperature	40° F (4° C)	35° F (1.6° C)	35° F (1.6° C)
Service Temperature Range	-20° to 150° F (-29° to 66° C)	-40° to 180° F (-40° to 82° C)	-40° to 180° F (-40° to 82° C)
Solvent/Chemical Resistance	Good for most petroleum solvents and lower aliphatic alcohols. For ultimate solvent resistance, edge sealing is recommended	Excellent	Excellent
Water Resistance	Good	Excellent	Excellent

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