

# OVERLAMINATE

FILMS PORTFOLIO



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

## Overlaminates

Pressure activated high performance permanent adhesive

Excellent performance on flat or simple curves

Easy to finish – die cut or flatbed

Laminate to a similar substrate for best results



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.

### Calendered Vinyl *Improved Performance*

3.2 mil gloss, matte and luster finishes rated for <4 years of outdoor use

Enhanced UV protection

78# paper liner for improved wet out

Versatile, great for everyday use – keep a roll on your floor!



### Polycarbonate *Formerly RTape Eclipse™*

3, 5 and 10 mil velvet matte finish rated for <2 years of outdoor use

Clear non-yellowing permanent solvent adhesive for brilliant clarity

Clear PET film liner keeps adhesive smooth – prevents orange peel

Eliminates the reflection of overhead lights for glare-free viewing

Commonly used for rolled trade show graphics and displays

### Calendered Vinyl *UL-410 Slip Resistance Certified Floor Graphic Overlaminate*

4 mil clear double polished and 6 mil semi-rigid clear embossed options available

Clear PET film liner keeps adhesive smooth – prevents orange peel

Graphic withstand normal floor maintenance and cleaning

Suitable for indoor short term floor graphics for <6 months



### Polyester

Optically clear finish rated for <4 years of indoor use

Clear PET film liner keeps adhesive smooth – prevents orange peel

Dry erase option available

### NEW *Polyolefin Sustainability*

3 mil embossed PVC-Free polyolefin textured overlaminate film with a 1.5 mil clear PET liner

Suitable for interior short-term graphics for up to 6 months

UL 410 slip resistant

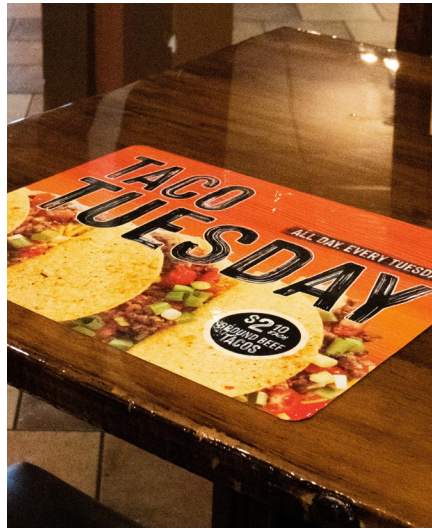
## Applications

- 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	LM1DE5450		54" x 50 yd	1 mil	Permanent	PET
Dry Erase	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

= PVC-Free



**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 Overlamine 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#

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

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

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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	12-18%	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 w/ 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	1.0 ± 0.2 mil	3.0 ± 0.2 mil	
	Film w/ 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	-	

Material ▶	Calendered Overlams	▶ Polycarbonate Overlams	▶ Polyester Overlams	▶ Polyester Dry-Erase Overlam	▶ Polyolefin Overlam
<b>Conditions for Use</b>					
<b>Shelf Life</b>	1 year	1 year	1 year	1 year	1 year
<b>Outdoor Durability</b>	Up to 4 years*	Up to 2 years	Not recommended for outdoor use	Not recommended for outdoor use	Not recommended for outdoor use
<b>Min Application Temp</b>	40° F (4° C)	20° F (-7° C)	40° F (4° C)	50° F (10° C)	40° F (4° C)
<b>Service Temp Range</b>	-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)	-20° to 150° F (-29° to 66° C)
			If laminated over vinyl films -20° to 150° F (-29° to 66° C)		
<b>Solvent/Chemical Resistance</b>	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	Good for most petroleum solvents and lower aliphatic alcohols. For ultimate solvent resistance, edge sealing is recommended
<b>Water Resistance</b>	Excellent	Excellent	Excellent	Excellent	Good

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