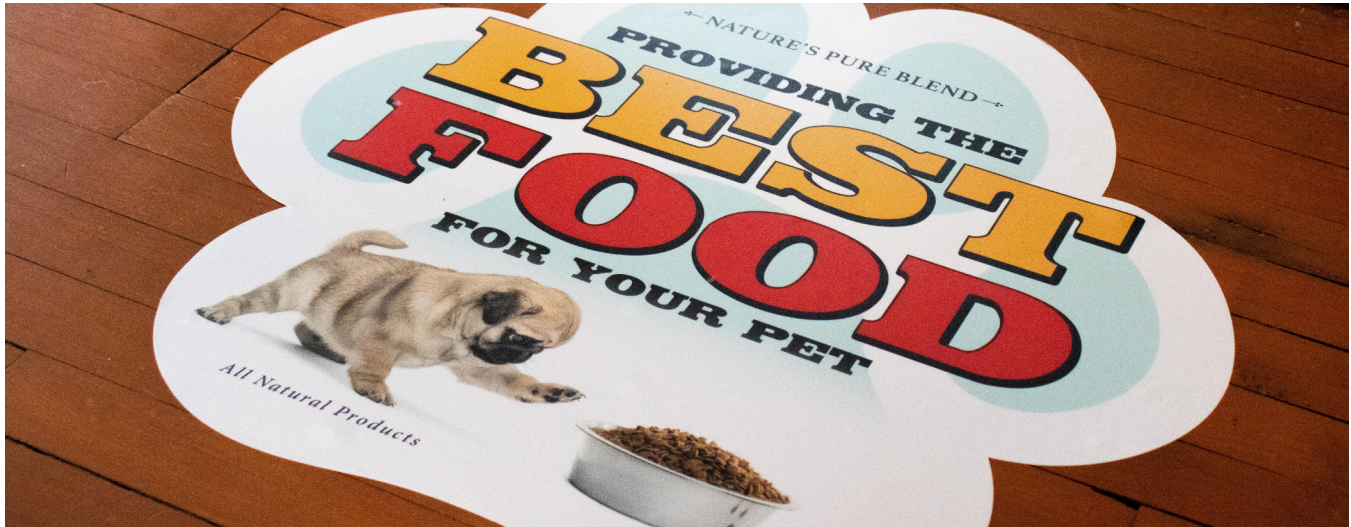


OVERLAMINATE

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

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

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



OVERLAMINATE

FILMS PORTFOLIO



STOCKED PRODUCTS ▶

| | Finish/Color | SKU # | UV Protection | Size | Film Thickness | Adhesive | Liner |
|--|--------------|------------|---------------|-------------|------------------|-----------|-----------|
| Calendered Vinyl Overlamine Films | | | | | | | |
| 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.

| | | | | | | | |
|---------------------------------------|--|-----------|---|-------------|--------|---------------------------------|-----|
| Polycarbonate Overlamine Films | | | | | | | |
| 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 |

| | | | | | | | |
|-----------------------------------|--|-----------|--|-------------|-------|-----------|-----|
| Polyester Overlamine Films | | | | | | | |
| 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 | | | |



OVERLAMINATE

FILMS PORTFOLIO



CUSTOM SIZE OFFERING ►

| | Finish/Color | SKU # | UV Protection | Size | Film Thickness | Adhesive | Liner | Wgt per MSI |
|---|----------------|--------|---------------|---------|------------------|-----------|-------|-------------|
| Calendered Vinyl Overlamine Films | | | | | | | | |
| | 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. | | | | | | | | |
| Polyester Overlamine Films | | | | | | | | |
| | Gloss Clear | LM1CL | | 54" | 1 mil | Permanent | PET | .25# |
| | | LM2CL | | 54" | 2 mil | Permanent | PET | .25# |



OVERLAMINATE

FILMS PORTFOLIO

TECHNICAL DATA ►

| Grade ► | LM3LL | LM3MCL | LM3CL | LM4CL | LM6CE | PC 3 mil |
|----------------------------|---------------------------|-------------------|-------------------|------------------|----------------------|---------------------------------|
| Physical Properties | | | | | | |
| Finish | Semi-Gloss | Matte | Gloss | Gloss | Textured | Velvet Matte |
| Color | Clear | Clear | Clear | Clear | Clear | Clear |
| Adhesive | Permanent - P22 | Permanent - P22 | Permanent - P22 | Permanent - P92 | Permanent - P92 | Non-Yellowing Permanent Solvent |
| Film | Calendered Vinyl | Calendered Vinyl | Calendered Vinyl | Calendered Vinyl | Embossed Rigid Vinyl | Clear Polycarbonate |
| Liner | 78# Release Liner | 78# Release Liner | 78# Release Liner | 1.5 Clear PET | 1.5 Clear PET | PET Liner |
| Opacity | 20% Maximum | 20% Maximum | 20% Maximum | 20% Maximum | 12-18% | 12-18% |
| Gloss Level | 40-60% | 8% Typical | 75% Minimum | 75% Minimum | 12% Typical | 9-12% Typical |
| Thickness | 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 |
| | 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 |
| | 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 |
| Adhesion | SS 15 min Room Temp Dwell | 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 |

| Grade ► | PC 5 mil | PC 10 mil | LM1CL | LM2CL | LM1DE |
|----------------------------|---------------------------------|---------------------------------|---------------------------|---------------------------|---------------------------|
| Physical Properties | | | | | |
| Finish | Velvet Matte | Velvet Matte | Gloss | Gloss | Gloss |
| Color | Clear | Clear | Clear | Clear | Clear |
| Adhesive | Non-Yellowing Permanent Solvent | Non-Yellowing Permanent Solvent | Permanent - P92 | Permanent - P92 | Permanent |
| Film | Clear Polycarbonate | Clear Polycarbonate | Optically Clear Polyester | Optically Clear Polyester | Optically Clear Polyester |
| Liner | PET Liner | PET Liner | 1.5 Clear PET | 1.5 Clear PET | 1.2 Clear PET |
| Opacity | 12-18% | 12-18% | 2% Typical | 2% Typical | 2% Typical |
| Gloss Level | 9-12% Typical | 9-12% Typical | Clear Polyester | Clear Polyester | Clear Polyester |
| Thickness | Film | 5.0 ± 0.2 mil | 10 ± 0.2 mil | 1.0 ± 0.2 mil | 2.0 ± 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 |
| | Total Thickness | 8.0 ± 0.4 mil | 13.5 ± 0.2 mil | 3.5 ± 0.4 mil | 4.5 ± 0.4 mil |
| Adhesion | SS 15 min Room Temp Dwell | 70 oz/in minimum | 70 oz/in minimum | 40 oz/in minimum | 40 oz/in minimum |
| | SS 24 hr Room Temp Dwell | 87 oz/in minimum | 87 oz/in minimum | 50 oz/in minimum | 60 oz/in minimum |

| Material ► | Calendered Overlams | Polycarbonate Overlams | Polyester Overlams | Polyester Dry-Erase Overlam |
|------------------------------------|---|------------------------------|---|---|
| Conditions for Use | | | | |
| 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 Temp | 40° F (4° C) | 20° F (-7° C) | 40° F (4° C) | 50° F (10° C) |
| Service Temp 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 |

*UL 410 approved LM4CL and LM6CE are not suitable for outdoor floor graphic applications.

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.