

Rigid Vinyl Films

Print-Grade Rigid Vinyl Film

Rigid vinyl is the workhorse substrate of commercial printing and signage. K&R stocks print-grade vinyl across the full gauge range from thin to heavy-gauge film, in matte, gloss, and specialty finishes — qualified for toner, indigo, inkjet, screen, offset, and litho printing.

Applications

- POP signage: shelf talkers, wobblers, table tents, posters, counter cards
- ID cards, membership cards, greeting and advertisement cards
- Backlit and frontlit signs, placards
- Binders, folders, presentation covers
- Thermoformed packaging trays and clamshells
- Industrial labels and overlays
- Box-lid grade for non-whitening scores and folds

Features & Benefits

Easy-printing, high-quality substrate accepted across automotive, appliance, computer, electronic, medical, and display industries.

Excellent non-corona dyne level and roughness profile on matte surface for consistent screen, foil-stamp, and sonic-weld quality.

Corona treatment available to raise gloss-side dyne levels for ease of printing without secondary lamination.

Compatible with coated and uncoated overlay materials.

Outstanding flexural durability and character-height retention.

Custom PMS color matching, custom sizes, and custom gauges available.

Print & Process Compatibility

Toner ✓ · HP Indigo ✓ (treated) · UV Inkjet ✓ · Solvent Inkjet ✓ · Screen ✓ · Offset ✓ (treated) · Litho ✓ (treated)

AVAILABLE SURFACES, FINISHES & GAUGES

Surface / Finish	Description	Stock Gauges
Matte / Matte	Slightly textured surface available in 14 stock colors. Most popular finish — compatible with screen-print, foil stamping, and sonic welding.	.010, .015, .020, .030
Gloss / Gloss	Stocked in white, black, and clear; corona-treated for ink adhesion. Custom colors available with PMS matching.	.010, .015, .020, .030
Velvet / Matte	Affordable alternative to velvet/matte polycarbonate — matte vinyl printability with velvet scratch resistance.	Stock and special order
Press Polished	Thermal press-polished for near-perfect glossy finish. Custom colors, gauges, and sizes available.	Custom (no minimums)
Box Lid Grade	For perfect, non-whitening scores and folds on a printable surface. Pairs well with velvet/matte for low-cost polycarbonate alternative.	.007 – .020 (custom)
Copolymer	Used in laminating and bonding to like substrates. Custom matching or specs required.	Custom

TYPICAL PROPERTIES

Property	Typical Value	Test Method
Physical		
Vicat Softening Temperature	87 – 89 °C	ASTM D 1525
Cold-Break Temperature	-4°F / -22°F / -31°F	ASTM D 1790
Surface Roughness (Ra, micro inch)	35 – 85	—
Dyne Level	Side A: 36 · Side B: 34	ASTM D 2578
Gloss Value	CR 4/5: 14↓ / 14↓	ASTM D 523
Mechanical		
Tensile Strength	Min 6,000 psi	ASTM D 638
Elongation	Min 100 %	ASTM D 638
Quality / Tolerances		
Thickness Tolerance	± 5 %	—
Width Tolerance	± 1/16 in.	—
Square-Cut Tolerance	± 1/32 in.	—
Black Specs (≥1/32")	2 max per 10 sq ft	—
Gels (≥1/32")	5 max per sq ft	—

Properties reported here are typical of average lots. K&R Plastics, Inc. and its manufacturers make no representation or warranty that the material in any particular shipment will conform exactly to the values given. Unless otherwise noted, all tests run at 23°C (73°F) and 50% relative humidity. Job-specific qualification recommended for production runs — request a sample.