

Rigid Vinyl (PVC)

Rigid PVC Films & Sheets

Rigid PVC is the workhorse substrate of commercial printing and signage. K&R stocks print-grade PVC across the full gauge range from thin film to heavy sheet, 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		

Property	Typical Value	Test Method
Specific Gravity	1.32 – 1.36 (translucent); 1.36 – 1.44 (opaque)	ASTM D 792
Vicat Softening Temperature	87 – 89 °C	ASTM D 1525
Heat Distortion Temp. (264 psi)	1.47 – 1.57	ASTM D 648
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.