

UVR

Photopolymer Plates

A Plate Designed Specifically for Use with UV Inks

MacDermid's UVR was designed to swell less than other flexographic plates in aggressive UV inks. By their very nature, UV inks can affect flexo plate material more than solvent- or water-borne inks. UVR tends to swell less under these conditions, giving longer lifetime and more consistent print properties than plates with similar physical properties. Additionally, UVR offers excellent print resolution and low dot gain.

UVR can be processed in either solvent or thermal systems. When you need a plate with excellent resistance to UV inks, count on the company that innovates with you in mind. MacDermid.

Key Features

- Low Swell in UV inks
- Excellent Resolution
- Solvent or Thermal Processing
- Low Dot Gain

Segments

Flexible Packaging



Folding Carton



Tags and Labels



Sacks, Paper, Multiwall



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Technical Specifications

UVR is available in thicknesses of 0.045" (1.14mm) and 0.067" (1.70mm) in sizes up to 50" x 80" (1270mm x 2032mm). Please contact your MacDermid representative for details.

Reproduction Capabilities

Halftones: 0.045-0.067" gauge (1.14mm – 1.70 mm)
1 - 98% at 175 lpi (69 lines/cm)

Fine lines: 0.003 in. (0.075mm) width

Isolated Dots: 0.006 in. (0.150 mm diameter)

Fine lines and isolated dots using 0.067 (1.70mm) plate

Plate Processing

UVR can be processed in either solvent or thermal systems. For solvent processing, use with SOLVIT® M100 or SOLVIT® QD is recommended. Most other safe-solvent solutions may also be used.

Processing times for any particular job and process are determined by equipment and other factors; consult your MacDermid representative for help in optimizing your plate processing.

Recommended Processing Conditions:

Gauge (mil/mm)	Durometer (Shore A)	Desired Relief (mil/mm)	Back Exposure ¹		Face Exposure ¹		Wash Out ² (sec)	Dry Time (min)	Post Exposure ³ (min)	Detack ⁴ (min)
			(J/cm ²)	(sec)	(J/cm ²)	(sec)				
45/1.14	77	20/0.5	1.2	75	5.2-7.9	330-490	180	90	5	8-10
67/1.70	70	20/0.5	2.4	150	5.2-7.9	330-490	360	120	5	8-10

* Contact your MacDermid representative for assistance in establishing proper processing conditions

1. Lamp intensity: 16 mW/cm²
2. Solvit QD washout times
3. Lamp intensity: 17mW/cm²
4. Lamp intensity: 10 mW/cm²

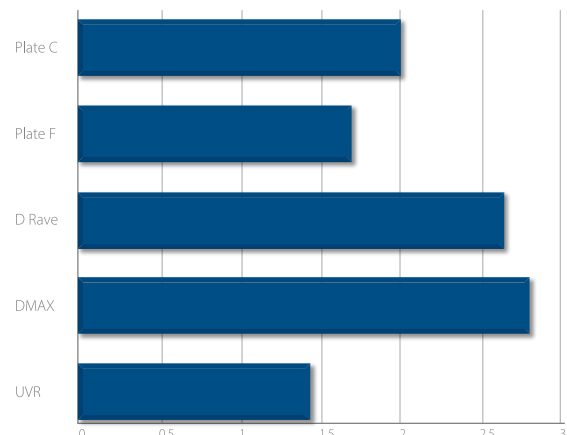
Ink/Solvent Compatibility

UVR plates have ink compatibility similar to natural rubber. Plates are compatible with water and alcohol based inks containing up to 25% acetate, and with most commercial UV inks. UVR is not recommended for oil-based inks, hydrocarbon solvents, or inks with acetate content higher than 25%.

Applications

UVR is a digital sheet photopolymer for use in labels, folding carton, flexible packaging and other flexo markets that require a medium-high durometer plate, in particular one with good swell resistance to UV inks.

Swell, by weight %



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