## **MVP**

## **Photopolymer Plates**

# The Most Valuable Plate for Your Printing Needs

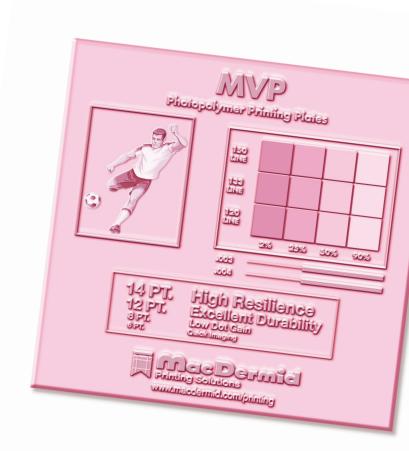
**MacDermid MVP** is the newest medium durometer, analog sheet photopolymer plate from MacDermid. Its durable design results in higher quality print and increased productivity.

This 50 durometer plate has exceptional resilience, allowing for faster press speeds and reduced bounce. Ink transfer is enhanced, delivering extremely smooth solids and crisp, cleanrunning process color images every time. MVP plates work well with a wide variety of substrates and inks.

When you want the most valuable plate in your line-up, count on the company that innovates with you in mind. MacDermid.

## **Key Features**

- High resilience
- Excellent durability
- Low dot gain
- Quick Imaging



## **Segments**

Flexible Packaging



Folding Carton



Tags and Labels



Sacks, Paper, Multiwall







### **Photopolymer Plates**

#### **Technical Specifications**

MVP is available in thicknesses of 0.045" (1.14 mm) - 0.112" (2.84 mm) and in sizes up to 52" x 80"(1,320 mm x 2,032 mm). Please contact your MacDermid representative for details.

#### **Reproduction Capabilities**

**Halftones:** 0.045-0.112" gauge (1.14 mm – 2.84 mm)

1 - 95% at 175 lpi (69 lines/cm)

**Fine lines:** 0.002 in. (0.05 mm) width **Isolated dots:** 0.003 in. (0.08 mm) diameter

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

#### **Plate Processing\***

Use with SOLVIT® M100 or SOLVIT® QD is recommended. Most other safe-solvent solutions may be used.

Processing times for any particular job are determined by equipment, copy requirements, and plate thickness.

#### **Ink/Solvent Compatability**

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

#### **Applications**

MVP is an analog sheet photopolymer for use in labels, folding carton, multi-wall bag, preprinted liner, flexible packaging and other flexo markets that require a medium durometer plate.

#### **Recommended Processing Conditions\***

		Desired							Post		
Gauge	Durometer Relief		Back Exposure <sup>1</sup>		Face Exposure <sup>1</sup>		Wash Out <sup>2</sup>	<b>Dry Time</b>	Exposure <sup>3</sup>	Detack <sup>4</sup>	
mil/mm)	(Shore A)	(mil)	(mJ/cm²)	(sec)	(J/cm²)	(sec)	(sec)	(min)	(min)	(min)	
45/1.14	69	23	1020	64	4.8-8.6	300-540	360	90	5	5	
67/1.70	59	25	1100	69	5.3-9.6	330-600	400	120	5	5	
00/2.54	53	30	1580	99	5.8-10.6	360-660	420	150	5	5	
07/2.71	52	32	1650	103	6.2-10.6	390-660	450	150	5	5	
12/2.84	50	35	1740	109	6.7-11.5	420-720	450	150	5	5	
r	mil/mm) 45/1.14 67/1.70 00/2.54 07/2.71	mil/mm) (Shore A) 45/1.14 69 67/1.70 59 00/2.54 53 07/2.71 52	Gauge mil/mm         Durometer (Shore A)         Relief (mil)           45/1.14         69         23           67/1.70         59         25           00/2.54         53         30           07/2.71         52         32	Gauge mil/mm         Durometer (Shore A)         Relief (mil)         Back Exp (mJ/cm²)           45/1.14         69         23         1020           67/1.70         59         25         1100           00/2.54         53         30         1580           07/2.71         52         32         1650	Gauge mil/mm         Durometer (Shore A)         Relief (mil)         Back Exposure <sup>1</sup> (sec)           45/1.14         69         23         1020         64           67/1.70         59         25         1100         69           00/2.54         53         30         1580         99           07/2.71         52         32         1650         103	Gauge mil/mm         Durometer (Shore A)         Relief (mil)         Back Exposure 1 (mJ/cm²)         Face Ex (J/cm²)           45/1.14         69         23         1020         64         4.8-8.6           67/1.70         59         25         1100         69         5.3-9.6           00/2.54         53         30         1580         99         5.8-10.6           07/2.71         52         32         1650         103         6.2-10.6	Gauge mil/mm         Durometer (Shore A)         Relief (mil)         Back Exposure <sup>1</sup> (mJ/cm <sup>2</sup> )         Face Exposure <sup>1</sup> (J/cm <sup>2</sup> )         Face Exposure <sup>1</sup> (sec)           45/1.14         69         23         1020         64         4.8-8.6         300-540           67/1.70         59         25         1100         69         5.3-9.6         330-600           00/2.54         53         30         1580         99         5.8-10.6         360-660           07/2.71         52         32         1650         103         6.2-10.6         390-660	Gauge mil/mm         Durometer (Shore A)         Relief (mil)         Back Exposure <sup>1</sup> (mJ/cm <sup>2</sup> )         Face Exposure <sup>1</sup> (J/cm <sup>2</sup> )         Wash Out <sup>2</sup> (sec)           45/1.14         69         23         1020         64         4.8-8.6         300-540         360           67/1.70         59         25         1100         69         5.3-9.6         330-600         400           00/2.54         53         30         1580         99         5.8-10.6         360-660         420           07/2.71         52         32         1650         103         6.2-10.6         390-660         450	Gauge mil/mm         Durometer (Shore A)         Relief (mil)         Back Exposure <sup>1</sup> (my/cm <sup>2</sup> )         Face Exposure <sup>1</sup> (sec)         Wash Out <sup>2</sup> (sec)         Dry Time (min)           45/1.14         69         23         1020         64         4.8-8.6         300-540         360         90           67/1.70         59         25         1100         69         5.3-9.6         330-600         400         120           00/2.54         53         30         1580         99         5.8-10.6         360-660         420         150           07/2.71         52         32         1650         103         6.2-10.6         390-660         450         150	Gauge mil/mm         Durometer (Shore A)         Relief (mil)         Back Exposure 1 (my/cm²)         Face Exposure 1 (sec)         Wash Out 2 (sec)         Dry Time (min)         Exposure 3 (min)           45/1.14         69         23         1020         64         4.8-8.6         300-540         360         90         5           67/1.70         59         25         1100         69         5.3-9.6         330-600         400         120         5           00/2.54         53         30         1580         99         5.8-10.6         360-660         420         150         5           07/2.71         52         32         1650         103         6.2-10.6         390-660         450         150         5	Gauge mil/mm         Durometer (Shore A)         Relief (mil/mm)         Back Exposure 1 (mil)         Face Exposure 1 (J/cm²)         Wash Out 2 (sec)         Dry Time (min)         Exposure 3 (min)         Detack 4 (min)           45/1.14         69         23         1020         64         4.8-8.6         300-540         360         90         5         5           67/1.70         59         25         1100         69         5.3-9.6         330-600         400         120         5         5           00/2.54         53         30         1580         99         5.8-10.6         360-660         420         150         5         5           07/2.71         52         32         1650         103         6.2-10.6         390-660         450         150         5         5

<sup>\*</sup> Contact your MacDermid representative for assistance in establishing proper processing conditions

- 1. Lamp intensity 16mW
- 2. Solvit QD washout times
- 3. Lamp intensity 17 mW
- 4. Lamp intensity 10 mW



For more information, please contact:

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