



# Technical Data Sheet

**Issue Date:** 06/12/05  
**Revision Number:** 4  
**Document Number:** 06-010  
**Material/Trade name:** imagepac

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## Product Description

imagepac is pre-packed photopolymer UV Resin. It is used to produce printing plates used for the marking device industry.

imagepac is both recyclable and water developable.

imagepac is the only product in the world that enables the user to get the benefits of water washable liquid polymer without the drawbacks of handling liquids. The imagepac plate is pure polymer and does not require an attached backing sheet. The finished plate has excellent tear strength, ink wet ability and will be completely tack free. The plate will exhibit better UV resistance than other competitive polymers.

## Basic Properties

<b>Appearance</b>	Sachets of green or clear coloured resin
<b>Size of sachet</b>	A4 inner seal dimensions 296mm x 217mm A5 inner seal dimensions 147mm x 217mm A6 inner seal dimensions 137mm x 109mm A7 inner seal dimensions 109mm x 70mm A8 inner seal dimensions 70mm x 45mm Dimensions are correct to within +/- 2mm.
<b>Composition of sachet</b>	Proprietary plastic
<b>Viscosity of resin</b>	6500 – 9000 cps at 23°C. Photocentric test procedure 06/013.
<b>Specific gravity of resin</b>	1.06. Photocentric test procedure 06/016.
<b>Heat stability of resin</b>	No change in viscosity exhibited after storage at 80°C for 48 hours.
<b>Hardness of cured plate</b>	50 (Shore A). Tested to be within the range 45 and 50 (Shore A). PhotoCentriC test procedure 06/014.
<b>Cure rate of resin</b>	Clear: 1 minute producing 1.6 mm 2 minutes producing 2.4 mm Green: 1 minute producing 1.1 mm 2 minutes producing 1.7 mm 700 mWatts/cm <sup>2</sup> @ 365nm wavelength. Photocentric test procedure 06/015.
<b>Image Quality</b>	2.3 mm plate with 1.2 mm floor An isolated dot of 0.3mm diameter should be held and have a 30 degree shoulder. An isolated line of 0.1mm width should be held and have a 30 degree shoulder. A reverse fine line of 0.05mm width should be open and V shaped. A reverse dot of 0.07mm diameter should be open and V shaped.
<b>Tear strength</b>	A cut should propagate at a rate slower than 120 sec per 2.5cm (6mm plate with the 360° bend test)
<b>Plate tack</b>	Completely tack free surface and floor (10 minutes under-water post exposure using standard exposure unit without de-tack salts)



# imagepac Technical Data Sheet

**Issue Date:** 18/08/03  
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<b>Plate resilience</b>	31 – 35% (Bouncing ball test 1cm diameter)																		
<b>imagepac shelf life</b>	18 months. Product is labelled with expiry date on base of carton.																		
<b>Printing ink compatability</b>	Water and oil based inks (not suitable for solvent base ink)																		
<b>Sachet seal strength</b>	Sachet to withstand force of 25kg weight evenly spread over sachet for a period of 6 weeks. Sachet to be completely absent of leakage.																		
<b>Sachet contents</b>	fill weight to be within 1% of target fill weight.																		
	<table> <tr> <td>A4</td> <td>2.3mm</td> <td>161.0g</td> </tr> <tr> <td>A5</td> <td>2.3mm</td> <td>77.5g</td> </tr> <tr> <td>A6</td> <td>2.3mm</td> <td>35.9g</td> </tr> <tr> <td>A7</td> <td>2.3mm</td> <td>18.5g</td> </tr> <tr> <td>A7</td> <td>1.7mm</td> <td>13.9g</td> </tr> <tr> <td>A8</td> <td>2.3mm</td> <td>7.8g</td> </tr> </table>	A4	2.3mm	161.0g	A5	2.3mm	77.5g	A6	2.3mm	35.9g	A7	2.3mm	18.5g	A7	1.7mm	13.9g	A8	2.3mm	7.8g
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<b>Air bubbles</b>	Sachet to contain a maximum of 3 air bubbles. No air bubble is to have a diameter of greater than 0.5mm.																		

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