

imagepac xtra Technical Data Sheet

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Revision Number: 3
Document Number: 06-022
Material/Trade name: imagepac xtra

Product Description

imagepac xtra is pre-packed photopolymer UV Resin which will adhere to an incorporated backing sheet after exposure. It is used to produce printing plates used for the marking device industry. imagepac xtra is both recyclable and water developable. The finished plate has excellent tear strength, UV resistance, ink wet ability and will be completely tack free.

Basic Properties

Appearance	Sachets of green, red or clear coloured resin
Size of sachet	A2 inner seal dimensions 421mm x 595mm A3 inner seal dimensions 421mm x 298mm A4 inner seal dimensions 217mm x 301mm A5 inner seal dimensions 217mm x 147mm A6 inner seal dimensions 105mm x 137mm A7 inner seal dimensions 105mm x 66mm A8 inner seal dimensions 70mm x 50mm Dimensions are correct to within +/- 2mm.
Composition of sachet	Proprietary laminate of different plastics
Viscosity of resin	6500 – 9000 cps at 25°C Photocentric test procedure 06/013.
Specific gravity of resin	1.06 Photocentric test procedure 06/016.
Heat stability of resin	No change in viscosity exhibited after storage at 80°C for 48 hours.
Hardness of cured plate	50 (Shore A). Tested to be within the range 48 and 53 (Shore A). Photocentric test procedure 06/014.
Cure rate of resin	Clear: 25 secs producing 1.5 – 1.7 mm Green or Red: 25 secs producing 1.1 – 1.3 mm Irradiated at 9 mW/cm ² @ 365nm wavelength. Photocentric test procedure 06/016.
Image Quality	2.55mm plate with 1.5mm 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.
Tear strength	A cut should propagate at a rate slower than 120 sec per 2.5cm (6mm plate with the 180° bend test)
Plate tack	Completely tack free surface and floor (12 minutes under-water post exposure using standard exposure unit with de-tack salts)

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Issue Date: 04/01/05
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Plate resilience	31 – 35% (Bouncing ball test 1cm diameter)																																			
imagepac shelf life	12 months. Product is labelled with batch number referencing its date of manufacture on base of carton.																																			
Printing ink compatibility	Water and oil based inks (not suitable for solvent base ink)																																			
Sachet seal strength	Sachet to withstand force of 25kg weight evenly spread over sachet for a period of 1 week. Sachet to be completely free from leakage.																																			
Sachet contents	Fill weight to be within 1% of target fill weight: <table><tr><td>A2</td><td>2.3mm</td><td>557.1g</td><td>2.55mm</td><td>626.0g</td></tr><tr><td>A3</td><td>2.3mm</td><td>280.4g</td><td>2.55mm</td><td>315.1g</td></tr><tr><td>A4</td><td>2.3mm</td><td>149.5g</td><td>2.55mm</td><td>167.8g</td></tr><tr><td>A5</td><td>2.3mm</td><td>68.5g</td><td>2.55mm</td><td>78.0g</td></tr><tr><td>A6</td><td>2.3mm</td><td>33.0g</td><td>2.55mm</td><td>36.5g</td></tr><tr><td>A7</td><td>2.3mm</td><td>14.9g</td><td>2.55mm</td><td>17.0g</td></tr><tr><td>A8</td><td>2.3mm</td><td>8.8g</td><td>2.55mm</td><td>10.0g</td></tr></table>	A2	2.3mm	557.1g	2.55mm	626.0g	A3	2.3mm	280.4g	2.55mm	315.1g	A4	2.3mm	149.5g	2.55mm	167.8g	A5	2.3mm	68.5g	2.55mm	78.0g	A6	2.3mm	33.0g	2.55mm	36.5g	A7	2.3mm	14.9g	2.55mm	17.0g	A8	2.3mm	8.8g	2.55mm	10.0g
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Air bubbles	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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