

Photopolymer plates for CtP

:N91v & :N91



High performance photopolymer plate technology

Photopolymer plates provide lithographic quality with easy handling and durability. :N91 and :N91v set the standard for photopolymer technology for visible light platesetting. Agfa's high-performance technology is designed to provide high quality and productivity with low cost of operation-features you need to quicken turnaround and improve profitability. They are the result of Agfa's commitment to help you get ahead and stay ahead.

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:N91v & :N91

The Accuracy of Digital Imaging. The Performance Characteristics of Litho.

:N91v is a high quality plate that achieves resolutions of up to 3 to 97 percent at 200 lpi under optimum exposure/platesetter conditions.

And its ultra-durable coating enables press runs of up to 250,000 unbaked and more than 500,000 impressions baked. These qualities make :N91 and :N91v the ideal plate for the newspaper, book, business form, and commercial colour printing.

Violet-Laser Imaging

:N91v is a direct response to the continuing success of violet CtP. Long laser life, high speed imaging, low cost of ownership and outstanding quality has resulted in violet CtP being successful in all areas of commercial and newspaper CtP applications.

:N91v uses the same stable, robust photopolymer plate technology that Agfa has perfected in :N91 plates. By optimising it for use with the new generation of violet CtP devices, the :N91v combines proven performance with the benefits of violet CtP.

High-Performance Reputation

Many years of successful use in hundreds of newspaper CtP lines has ensured that Agfa photopolymer plate technology has a deserved reputation for high standards of quality and reliability, even in the most demanding environments. With :N91v, Agfa has delivered a breakthrough technology that offers printers a robust, wide-latitude plate technology. The violet diode platesetters offer a low cost of purchase, incredibly long lifetimes and the lowest cost of ownership.

:N91v guarantees fast, accurate plate exposure together with simple processing.

On press, :N91v delivers stunning results and predictable, consistent press performance.

Supporting the Power of Print... with Advanced Photopolymer Technology

Print. It's one of the most powerful communications mediums. Convincing your clients just how powerful print can be requires products that deliver exceptional quality and efficiency. That's the thinking that went into the newest generation of Agfa's photopolymer plates.

:N91 Family of Plates

Agfa's photopolymer plate family includes the :N91v and :N91. The violet-sensitive :N91v is used on violet-diode newspaper and commercial CtP devices and gives reliable, robust performance on press with resolutions of up to 200 lpi. :N91 is sensitive to 532nm FD YAG laser devices. Both plates offer today's printers the qualities they need to succeed-fast results, quality imaging, and optimum performance even during the longest press runs.

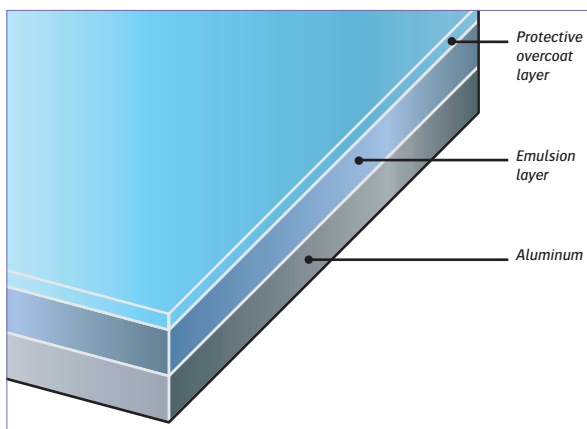
:N91v Proven Plate Processing

Agfa's :N91v has been designed to use the same tried and tested photopolymer plate processors that have delivered reliability to printers around the world. After exposure, the plate is processed in the standard way. A pre-heat (image amplification) is followed by an overcoat wash-off section. Then the image is developed and the plate is washed and gummed. The result is that :N91v is easily processed, at high speeds, in fully automated lines with the simple, clean and reliable processing that has made the original :N91 so successful.

Durable substrate

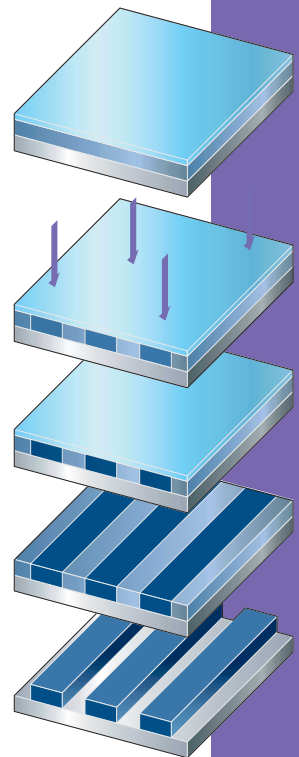
The :N91v HCl-grained aluminium substrate provides the solid foundation for remarkably consistent press performance. Advanced electrochemical graining and anodizing give predictable press performance, ensuring the reliability needed on a newspaper press. And the :N91v substrate provides the durability necessary for even the longest press runs.

The :N91v photopolymer coating layer has been optimized to yield razor sharp images at high resolution. The coating has been designed to offer a wide exposure and processing latitude, which results in a product that is as easy to use as it is reliable. The plate can be handled efficiently and easily under bright yellow safelight conditions. During exposure, the laser cross-links and hardens the image areas, which stay on the plate during processing. The highly stable plate tolerates process fluctuations for trouble-free development. With longer image stability- even in difficult highlight areas-:N91v is capable of extremely long press runs.



The sequence of images illustrates the various stages of :N91v from exposure right through to the press ready image.

- *The first image is of the :N91v before exposure.*
- *The second stage is exposure of the plate with the violet diode, the exposure is illustrated with the arrows.*
- *The third image shows the pre-heat, or image amplification stage. Here, the heat energy from the pre-heat stage is absorbed by the plate coating to give a stronger image that will be durable enough for the longest press runs.*
- *Image 4 shows the plate with the protective overcoat washed off, ready for the image to be developed.*
- *The fifth and final stage shows the non image area removed during image development. At this point, the :N91v plate is ready for press use.*



Agfa offers a range of high power violet diode platesetters for newspaper as well as commercial CtP applications.

:N91v & :N91



:N91v & :N91 product specifications

Feature	:N91v & :N91
Plate type	Negative-working, high-speed laser plate
Coating	Photopolymer
Gauges	0.15, 0.20, 0.30, 0.35, 0.40 mm 0.008", 0.012", 0.014", 0.016"
Surface	Electrochemically grained and anodized
Sizes	Standard sheetfed, web and newspaper
Sensitivity	:N91v sensitive at 405nm violet diode. :N91 sensitive at 532nm FD YAG laser
Exposure energy :N91v	Stouffer 21 step wedge step 3, solid 5 ghost; UGRA wedge step 2 solid 4 ghost
Exposure energy :N91	21 Step Wedge - Solid step 4, ghost 6 UGRA B2 Scale - Solid step 3, ghost 5
Resolution*	3% - 97% at up to 200 lpi
Processor speed	Up to 2m/min. in VSL65
Working conditions	Operating temp 23 ±2 °C, 50% ±10% relative humidity
Storage conditions	<30 °C. Do not expose to 50°C temperatures for not more than 24 hours. Recommended 30% to 70% relative humidity
Run length**	Up to 250,000 unbaked. 500,000+ baked

* plate resolution dependent on platesetter/exposure equipment and conditions.

** run length dependent on press conditions

The Smart Choice for Digital Platesetting

Every day, more pages are imaged on Agfa plates than any other make of plate. Agfa offers the broadest line of digital plates in the industry, including thermal (:Thermostar), thermal non-ablative processless (:Thermolite Plus), silver halide (:Lithostar Ultra), photopolymer (:N91 and :N91v), chemistry-free thermal (:Azura) and polyester (:Setprint) plates.

So you can choose the Agfa plate that meets your quality and run-length requirements.

We continually push the boundaries of consistency and quality with new plate technologies to give you the precise performance you need.

Only Agfa offers the broadest range of CtP technologies, proofing solutions, screening technologies, and workflow and project-management systems. So you can match a solution to meet your specific needs - and stay ahead.

Stay Ahead. With Agfa.

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