

# :N91v

## :N91v product specifications

Feature	:N91v
Plate type	Negative-working, high-speed, laser plate
Coating	Photopolymer
Gauges	0.20 mm, 0.30 mm, 0.40 mm 0.008", 0.012", 0.016"
Surface	Electronically grained and anodized
Sizes	Standard sheetfed and web sizes
Spectral sensitivity	Sensitive to violet diode 405nm
Exposure energy	21 Step Wedge - Solid step 2, ghost 5 UGRA B2 scale - Solid step 2, ghost 4
Resolution	3 - 97 percent at 175 lpi, negative typefaces 6 pts
Image color	Blue
Development, finishing	<ul style="list-style-type: none"> <li>Developer PD91</li> <li>Replenisher PD91R</li> <li>Gum RC794 for newspaper applications</li> </ul>
Processor speed	Up to 2m/min. in VSL65
Temperature	26°C ±2°C
Bath life	Up to 30 m2 per liter of developer
Replenishment rate	80 ml/m2
Working conditions	23 ±2 °C, 50% ±10%
Storage conditions	max 70% relative humidity
Run length*	up to 400,000

\* Depending on press conditions and image content



## The smart choice for digital plates

Every day, more pages are imaged on Agfa plates than any other type 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), and polyester (:Setprint) plates. So you can choose the Agfa plate that meets your quality and run length requirements. To extend our plate leadership, we continually push the boundaries of consistency and quality with new plate technologies.

## The world's choice for computer-to-plate solutions

Only Agfa offers the full range of platesetters, plates, processors, RIPs, screening technologies, digital proofing solutions, workflow expertise, and other prepress systems and consumables necessary for your success. For complete, highquality platesetting solutions that give you a choice, look to Agfa - the world leader in computer-to-plate technology and expertise.

## CtP photopolymer newspaper plate, sensitised for violet diode exposure

# :N91v



**:N91v is the latest in digital plate technology for newspaper and commercial CtP.**

:N91v is the new violet sensitive version of the original green sensitive :N91. :N91v was developed to allow newspaper printers to combine the benefits of the widely used and proven :N91 photopolymer plate technology together with the incredible user benefits offered by violet diode CtP platesetters. 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 therefore 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.

- |  |   |                               |                                   |                                    |
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## The Violet CtP Benefits

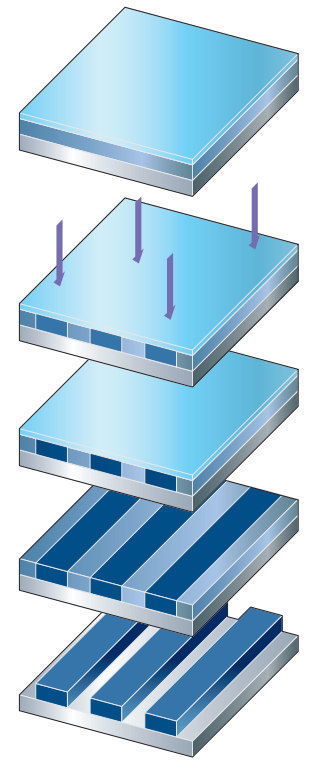
The exceptional lifetime, imaging speeds, low cost and reliability of the violet diode have combined to make violet diodes hugely successful since they were first introduced to CtP. Newspapers in particular are looking for reliability and consistency in any CtP system, and with :N91v newspapers can now take advantage of the market leading newspaper plate technology together with proven benefits of violet CtP technology.

## Proven Plate Technology

:N91v builds on the success of the original :N91 photopolymer plate. Using robust photopolymer technology, :N91v has been sensitised at 405nm to enable plate compatibility with the advanced violet diode CtP devices. Agfa's :N91v has been formulated using the best photopolymer know-how and experience to give a product that has the reliability and quality demanded by today's newspaper printers.

## :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 newspapers 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 gumed in the normal way. This processing system, and the processors that use it, have been using the same proven techniques for many years in hundreds of newspaper printers. 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.



"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.

## Violet reliability and cost benefits

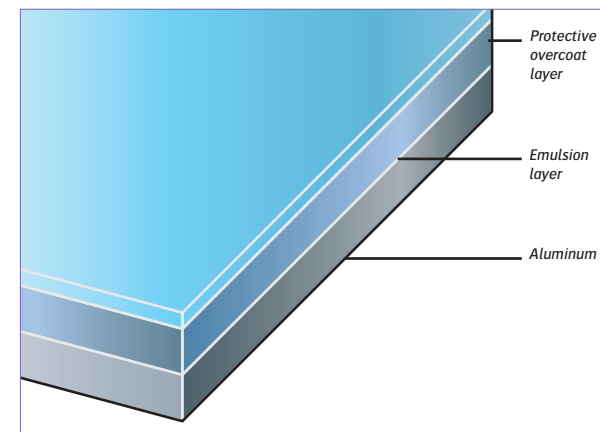
Since Violet diodes were first introduced at Drupa 2000, they have dramatically re-shaped the world of CtP. The low cost and exceptional reliability means that Violet CtP has become available in all formats from 2-up to VLF commercial applications. With the arrival of :N91v, the newspaper industry now has the benefits of a violet photopolymer plate that has been designed specifically to meet the rigours of a newspaper production environment. With the :Polaris and :Autologic platforms, Agfa has a true and dedicated market leading newspaper CtP systems offering. Whilst the :Polaris device is already commonly available in a violet laser diode version, now Agfa's newest CtP solution, the :Advantage DL3850, also uses this Violet Imaging technology. With :N91v, newspaper CtP now offers the highest levels of technology to deliver unprecedented reliability and the best ever value.

## Durable substrate

The :N91v HCl-grained aluminum substrate provides the solid foundation for remarkably consistent press performance. Advanced electrochemical graining and anodizing ensure 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.



Agfa's :Polaris X Newspaper CtP system offers the highest levels of quality and reliability.



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 new :Advantage DL3850 CtP solution opens a whole new world of opportunities for today's Newspaper needs.