

NEW Mitsubishi Silver DigiPlate™

SDP-FRS175

8 mil polyester matte-backed plate material

In a continued effort to keep Silver DigiPlate™ the premium product in the polyester plate market, Mitsubishi Imaging (MPM), Inc. is delighted to introduce the latest version of our 8 mil polyester matte backed plate material.

While the published specifications remain the same, world-wide field testing has shown improved run length under varying conditions, reduced incidence of toning, as well as wider development window and on-press latitude.

SDP –FRS175 is compatible with virtually any polyester platesetter or laser imagesetter on the market today, and designed to work especially well in the Mitsubishi Eco1630 series and DPX series (including DPX 2, DPX 4 and DPX 4 Eco).

1. Features

(1) Superior water receptivity and response

- a. The plate's water receptivity and response on press are improved. This is especially noticeable in the plate's resistance to toning during printing and greater print stability. Water retention is improved and will be noticeable both when starting to print as well as restarting after stopping the press. This reduces paper waste and improves operating efficiency.
- b. Toning is reduced even when printing with inks that have a higher tendency toward toning, such as dark or indigo blue inks.
- c. The improved water receptivity reduces overall the amount of water required on press and will reflect in improved ink-handling attributes such as improved roll-up and stable ink density throughout the print run.

(2) Superior run length performance

- a. A revision to the carbon black has increased the strength of the plate surface, which results in improved run length performance, more stable dot reproduction and improved quality on longer run jobs.
 - b. There is minimal wear of small dots and fine lines during longer run-lengths, providing increased stability throughout the run.
- ❖ The performance and benefits of the SDP-FRS plate will vary depending upon processing and press conditions.

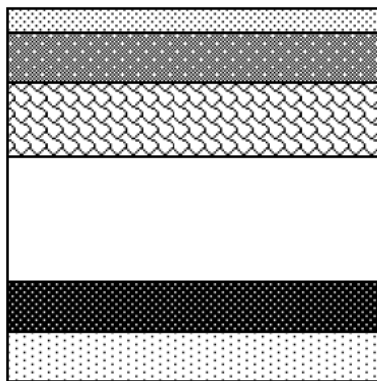
2. Specifications

- Color Sensitivity : Red laser diode sensitive (630nm to 680nm)
- Applicable Light Source : Red laser diode, He-Ne laser
- Base : Polyester film
- Thickness : Approx. 200 μ m
- Run Length : 20,000 impressions (*1)
- Dot Range (Line Screen) : 3 to 97% (175 line/inch) (*1)

(*1) Depending on the conditions of the platesetter and press.

❖ Exposure conditions, processing conditions, and printing conditions for SDP-FRS are almost the same as that for current SDP-FRm. But as with any lot number change, customer should always verify exposure settings as noted below in section 3.

Layer Structure



- ← Physical development nuclei layer (including hydrophilic polymer)
- ← Silver halide emulsion layer (High-contrast emulsion + hydrophilic component)
- ← Underlayer (compression and water resistant)
- ← Polyester film base
- ← Anti-fog and antistatic layer
- ← Rough surface over layer

3. Precautions for first-time use

- When switching over from current SDP-FRm, optimum exposure value may need to be changed. Be sure to check the exposure value. To check exposure value, use MPM.PS test chart which can be found at www.mitsubishiimaging.com/support, click on "Training" choose "SDP Polyester Plates" and choose "Exposure".
- The improved water receptivity reduces the amount of water required on press. Please be sure to adjust fountain solution supply accordingly.
- For optimal performance with the new SDP-FRS175 plate material through an Eco1630 series platesetters, authorized trained dealers should review the attached document regarding preparing Eco1630s for the switch to FRS175. This document will also be available on the Support section of www.mitsubishiimaging.com.