

## AFP SH/DSH Solid Polymer

Asahi's AFP-SH/DSH is a hard Flexo plate to satisfy the customers increased demands for excellent printing quality and high durability. The improved mechanical stability and excellent ink transfer behavior in combination with low highlight dot gain, is making the SH/DSH plate most quality printers plate of choice. Steep relief shoulders and good intermediate depths ensure excellent printing results from the very start. The AFP-SH/DSH is primarily used in printing flexible packaging and labels. It's real strength, however, shows above all with jobs involving difficult tasks to be solved depending which printing application may be required..

The product advantages in detail:

- ▶ Superbly balanced reproduction of large tonal areas, text and halftone elements on film, foil and coated surfaces
- ▶ Short platemaking times and easy handling serve to improve quality
- ▶ The excellent tonal range improves the printing results
- ▶ Very good resistance to UV inks
- ▶ The wide exposure latitude facilitates consistent results
- ▶ Steep shoulder relief and very good intermediate depths allow printing reverse elements
- ▶ High ozone resistance facilitates plate storage



| SH/DSH                | 1.14 mm         | 1.70 mm         | 2.54 mm         | 2.84 mm         |
|-----------------------|-----------------|-----------------|-----------------|-----------------|
| Shore A Hardness      | 77              | 69              | 63              | 63              |
| K factor              | 5.98            | 9.89            | 15.17           | 17.05           |
| Resolution analogue   | 150 lpi / 1-95% |
| Resolution digital    | 175 lpi / 1-95% |
| Isolated line / $\mu$ | 80              | 80              | 80              | 80              |
| Isolated dot / $\mu$  | 150             | 150             | 150             | 150             |

The AFP-SH/DSH flexo plates can be produced in all Asahi AFP processing systems or corresponding processing equipment.

The plate is exposed on the back to produce the desired relief depth and achieve maximum sensitivity to UV light. After removal of the protective film, the main exposure is carried out. When an AFP-D(igital)SH type is used, the removal of the protective film is followed by laser imaging with a commonly available YAG, diode or fibre laser.

Then the plate is exposed, dried and finished by UVA and UVC light to ensure the optimum properties of the print-ready plate.

AFP-SH/DSH plates feature excellent compatibility with commonly used UV, solvent- and water-based ink systems.

After printing, the plates should be thoroughly cleaned. Direct exposure to sunlight and heat during storage is to be avoided.