Systems ▶▶ Printing

Böttcher Systems

Sheetfed Offset Printing

UV-Drying Inks
Sheetfed / Continuous Form Printing

Compound	Shore A
715	25
725	40
724	40
728	40

Chemical Resistance

Inks and washing solutions for conventional printing and media for UV-printing are completely different in their chemical characteristics and consequently, their effect on rubber materials. In order to ensure, that interactions between rubber and contact media are kept as low as possible, materials tailored to the requirements of each individual case are needed. If roller coverings are not adjusted correctly to contact media like ink and washing solution, geometrical changes will occur an even setting of the rollers is not possible anymore.

Dimensionally Stable Materials for UV-Printing

For pure UV-printing, special materials on EPDM-basis were developed, solving common problems in UV-printing like swelling, shrinking or stickiness of rollers. Depending on their respective position, these specialised materials are offered in different hardness degrees.

Sheetfed

For sheetfed offset the compounds 715 25 and 725 40 are recommended. Compound 715 25 is mainly used as inking form roller.

Web offset (Continuous form printing)

Particularly in continuous form printing, rollers are, due to their low diameters, exposed to high dynamic loads. In order to avoid rollers heating up excessively during runs, a highly dynamic Material, compound **724 40** was developed. Low temperatures in the inking systems help to reduce the generation of ink mist, thus creating constant production printing conditions.

Tube and Can Printing

In tube and can printing (letterset), UV-inks are used in many instances, which, differ from inks for sheetfed or web offset printing with respect to their effect on rubber rollers. The material **728 40** is optimally tuned to these conditions, thus ensuring a particularly high geometric stability.

UV-Inks Containing Metallic Pigments

Metal pigmented UV-inks (e. g. gold, silver) may contain dispersion media with fractions of mineral oil, which cause swelling of the EPDM-materials. A remedy for such cases are materials destined for dual purpose applications with change-over from UV to conventional printing, e. g. material 171 25 or 471 38.

Cleaning

Above named materials can be cleaned with common cleaners for UV-printing. The Böttcher washes Feboclean UV and Böttcherin Offset-UV are particularly recommended.
Böttcher cleaning agents prevent any damage to the rollers.

These materials are not suitable for conventional printing and not resistant against oils or other hydrocarbons. Even short contacts cause extreme swelling and the roller is destroyed.