Printing recommendations for Robuskin® in toner-based laser systems

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Robuskin® is a single- or double-sided matt coated film substrate. Robuskin® can be processed similarly to paper, and can be printed on by a variety of toner-based laser printing systems. Robuskin® combines the printability of paper with the physical properties of modern synthetic material.

Depending on the chosen base film, Robuskin® is highly tear- and stretch-resistant, and can withstand variable weather conditions, as it is temperature resistant in the range of -30°C to +60°C. It resists chemicals like petrol and oil; and liquids like fresh water and salt water.

Digital Printing

The large variety of toner-based digital printing systems makes it impossible to provide general processing recommendations. Good print results are mainly influenced by the type of toner, the applied voltage, the temperature, and the exposure time in the printing unit. MDV can confirm suitability for digital printing only for industrial printing systems, excluding commercial desktop laser and inkjet printers.

MDV suggests use of recommended standard machine settings, as for paper. Some printers allow individual parameters to be varied. MDV can assist and advise in this case, tel. +49 6188 952 269. To achieve good print results, please obey the technical specifications of the system, ensure its proper usage conditions, adhere to maintenance intervals and use original toners and inks.

VIP (Variable Information Printing)

Robuskin® can be printed on with most commercially available thermal transfer and thermal sublimation printers. With thinner qualities, there is danger of deformation when printing with dot matrix printers. Prior testing for suitability of use is recommended. Certain Robuskin® qualities are suitable to be printed on industrial toner-based laser printing systems. Please refer to MDV for details, tel. +49 (0) 6188 952 269.

Static Charge

In a warm and dry environment, the material can acquire a higher static charge. Print room conditions of 55 - 60 % relative humidity with a temperature of 18 – 23°C are therefore important. Furthermore, the printing machine should be supported by adding static eliminators (for example, copper cables in contact with the sheet surface and earthed through the machine at various points along the machine length), as well as by adding humidifiers, if necessary.

Guillotining

Robuskin® can be guillotine cut, just like paper, provided that any air cushions are expelled from the maximally 15 cm stack. Press beam pressures should be kept to an absolute minimum.

Storage and Handling

Robuskin® may be stored and handled like paper. Sheets should be stored flat and in airtight packaging. Although synthetic materials are less sensitive to temperature and humidity variations than paper, extremes should be avoided. Unpacked sheets should not be stored in direct sunlight for long periods. Naturally, mechanical damage to the product should be avoided.

Sheets should be brought to the print room at least 24 hours prior to use for acclimatisation. The time required for acclimatisation of Robuskin® is longer than for paper, as sheets in the middle of a stack require more time to reach print room conditions. Storing conditions should be approx. 55 - 60% relative humidity and 18 – 23°C temperature. Under these conditions, Robuskin® may be stored without problems for up to two years.

Technical Data Sheets

Technical data sheets containing additional information and parameters for successful processing can be provided upon request.

MDV

Disclaimer
All the above information is based on practical experience and is provided in good faith. No guarantee or warranty is given or implied by its use.
We recommend that the material is tested by the purchaser for his application prior to ordering.
Contact and discussion with suitable ink manufacturers is also recommended.

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