

Technical Information

Product information BOMO-Plott-Flock

Bomo-Plott-Flock is a heat-sealable film coated with white viscose fiber on a stable silicon carrier paper. By punching or cutting, the flock film can be processed into iron-on motifs, such as numbers, letters and signs. By means of colored pre-print one-color and multi-colored iron on motifs can be produced.

Roll format 50 cm / 156 rm.

Bomo-Plott-Flock films are characterized by the following:

- Good uniformity of flocking, high flock density and uniform flock height
- Excellent printability for the production of multi-colored motifs and coloring of own shades
- Good process ability during punching or cutting
- Good transferability to temperature-resistant textiles and other iron able substrates after appropriate preliminary testing
- Very good elasticity, after ironing on highly extensible substrates
- Mostly excellent adhesion and very good general fastness

Process steps for the production of iron-on motifs

White: punching or plotting and ironing
Single and multi-color: printing – drying + fixing, then punching or plotting and ironing

Printing

Bomo-Plott-Flock is applied in screen printing (26-49 threads / sm) with suitable printing pastes e.g.

100.0% Bomo-Print 226 EC
+ 0 – 5.0% color match pigment
+ 0-3.0% Fixer FIX 102 W

Full-color in the desired shade or multi-colored motif printed.

We recommend the use of Fixer FIX 102 W in general with higher color fastness claims.
At low fixing temperatures, FIX 104 W can be used after appropriate preliminary tests.

Drying + fixing

Multicolor printed Bomo-Plott Flock is dried at 130-150 °C for approx. 5-3 min

Punching / cutting

Bomo-Plott-Flock can be punched as a single sheet or as a stack with suitable punching machines. In order to achieve an optimal accuracy of fit, it is recommended to punch or cut multi-colored Bomo-Plott-Flock only as a single sheet.

Iron/press on

Before the ironing or pressing, the protective and stabilizing silicon carrier paper is to be removed from the motifs. The ready-made individual motifs are placed with the flock side up on the substrate, e.g. textiles, wood, plastic, leather, paper, etc., and fixed by means of commercially available, electrical, heated ironing presses.

Transfer conditions: 185-205 °C for approx. 10-20 seconds at medium to high pressure (250-500 p/cm²)

In the case of smooth, dense substrates, especially in the case of high pressure and high temperature, there is a risk that melt adhesive is squeezed laterally or on the surface. An improvement can usually be achieved by reducing the ironing pressure, by using a softer ironing support or by placing a thin textile material between the heating plate and the ironing motif.

Steam ironing presses are not suitable for the ironing/pressing process.

Flocked articles manufactured with Bomo-Plott-Flock show good dry and wet abrasion resistance. In the case of textile substrates, a washing resistance of up to 60 °C is generally achieved. Not dry-cleaning. Avoid intensive mechanical impact in wet and hot conditions (dryers, etc.). Basically, we strongly recommend that you carry out preliminary tests, in particular with impregnated or finished textile qualities and non-textile substrates.

Recommended use

We strongly recommend that you check the suitability of the film for the substrates used the wetting behavior, the adhesion, the fastness properties, the thermo stability and the processing parameters before the start of production by means of preliminary tests and also during the production.

For safety, please refer to the Material Safety Data Sheet. We reserve the right to alter product and leaflet changes.

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