



SmartFlock®



The world of flocked applicators

for cosmetic, dental, medical and technical applications

Great Potential

The focus of smartFlock® is the development and production of flocked products e.g. applicators for various fields and areas. The great number of advantages of flocked surfaces allows the creation of new products and product enhancements. smartFlock® is a product of the future.

The Technology

Millions of cut short fibers are charged in an electric field and then perpendicularly injected into a substrate which carries an adhesive layer. A fixation process binds the aligned flock fibres permanently to the chosen base materials. The flock fibers may consist of different materials, such as polyamide, polyester, acrylic, lyocell, viscose or blends made thereof. The fiber length ranges between 0.35 mm and 1.5 mm at fineness values between 1.7 and 6.7 dtex.

Any type of plastics or renewable material can serve as base to be coated in three dimensions. Installed

production-, pilot- and laboratory-scale plants of the smartFlock® enable us to produce up to 20,000 pieces per hour of large, small and sample collections.

Applications

smartFlock® as a division of smartpolymer GmbH develops functional materials for almost all cosmetic applications such as lip gloss, eyeshadow, eyeliner and much more.



Innovations characterize the range of products

Standard products

smartFlock® provides large quantities of e.g. applicators for decorative cosmetics as well as dental, medical and technical applications in strict correspondence to EC and EU regulations, with high product safety, high product uniformity and traceability at an optimal price-performance ratio.

Special products

Besides the traditional flock fibers smartpolymer uses specially developed functional fibers, consisting of cellulose with incorporated additives such as minerals, vitamins, etc. for skin care as well as anti-bacterial, polishing or abrasive effects. For all listed products we also offer different colours on request. On customer's demand we produce flocked 3D samples, too.

Quality Guidelines

smartpolymer is DIN EN ISO 9001:2015 certified.

New: Flock products with embedded natural oils and beeswax enriched with vitamin E.

These versatile fibers are a good choice for people looking for natural beauty products - with a limited number of ingredients and a wide range of applications.

Natural oils are rich in various vitamins and minerals as well as antioxidants and a high percentage of healthy fatty acids, which are beneficial for both skin and hair.



Jojoba oil



Aloe Vera



Almond oil



Beeswax

- ✓ Beeswax has a skin-soothing and antibacterial effect.
- ✓ Fatty acids promote skin elasticity and maintain the natural protective film.
- ✓ Minerals provide moisture and prevent the skin from drying out.
- ✓ Vitamin E helps to reduce inflammation, protects the skin from sun damage and stimulates skin regeneration.

SmartFlock®

Please contact us if you have any further questions or would like to have more information.

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