TUBASSIST ELASTOMELT 90 F
TUBASSIST ELASTOMELT 90 G

Characterization	Hot-melt adhesive granulates for producing flock transfers in combination with TUBVINYL ELASTOBOND
Chemical Structure	Thermoplastic synthetic granulates/powders
Supplied Form	TUBASSIST ELASTOMELT 90 F white, fine powder TUBASSIST ELASTOMELT 90 G white, coarse powder
Storage	On proper storage in a dry place, between + 5 °C and + 40 °C in closed original containers the product will hold for at least 12 months.

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

System Survey

1. Flock support	White or coloured flock papers or flock films
2. Screen-printable dispersion adhesive	e.g. TUBVINYL ELASTOBOND, preferably processed as two component system with TUBASSIST FIX 102 W-N.
3. Hot-melt adhesive granulate/powder	TUBASSIST ELASTOMELT 90 F fine hot-melt adhesive powder for low to high melting temperatures and medium to high fastness demands. TUBASSIST ELASTOMELT 90 G coarse hot-melt adhesive powder, for low to high melting temperatures and medium to high fastness demands, preferably used for extensive transfer motifs or coarse textiles.

Properties

	Fineness	Melting range	Transfer parameters
TUBASSIST ELASTOMELT 90 F	80 - 200 µ	110 - 115 °C	150 - 190 °C, 30 - 10 sec, 2 - 5 bar
TUBASSIST ELASTOMELT 90 G	200 - 300 µ	110 - 115 °C	150 - 190 °C, 30 - 10 sec, 2 - 5 bar

Film Properties

In combination with TUBVINYL ELASTOBOND, TUBASSIST ELASTOMELT 90 F/G facilitate very elastic flock transfers with a high layer stability.

Processing

The TUBASSIST ELASTOMELT types are thermoplastic and facilitate the bonding between the textile substrate and the flock + flock adhesive layer by means of contact heat and pressure (ironing press).

The hot-melt types are used in combination with TUBVINYL ELASTOBOND as flock adhesives; furthermore, after corresponding pretrials TUBASSIST ELASTOMELT 90 F can also be applied as hot-melt layer on other print transfer systems, such as e.g. foam or glitter transfers.

Stability

Depending on the recipe composition, transfer temperature and textile substrate, the flock transfers properly produced with TUBASSIST ELASTOMELT 90 F/G in combination with TUBVINYL ELASTOBOND/TUBASSIST FIX 102 W-N show a good to very good adhesion to the textile substrates and reach a wash fastness of up to 90 °C and a good fastness to dry cleaning.

Application Procedure

Application Fields

TUBASSIST ELASTOMELT 90 F/G serve as hot-melt adhesive components for producing flock transfer motifs in combination with TUBVINYL ELASTOBOND. Furthermore, especially TUBASSIST ELASTOMELT 90 F can be used as hot-melt in combination with foam or glitter transfers.

Recommendation for Use / Processing

Condition of Substrate

The ready-made flock transfers can be applied to a multitude of nowadays' common wovens and knits; they are particularly recommended for stretchable or elastic fabric qualities.

Processing Recommendation

Application of Hot-Melt Powder	Normally, the hot-melt powder is sprinkled onto the still wet adhesive layer immediately after the adhesive printing, or the freshly printed sheets are drawn through a tub with hot-melt powder.
Drying the Adhesive/ Hot-Melt Layer	Can be effected either in the drying chamber or in the continuous drier at temperatures of up to 80 °C at the most; drying at room temperature for 12 – 24 hours is possible as well.
Cleaning-off Excess Hot-Melt Adhesive Powder	Can be removed by brushing off with a soft brush by hand or with special cleaning units, possibly by means of a corresponding vacuum unit.

Curing of the Adhesive System + Sintering of the Hot-Melt Layer	For achieving best possible fastness properties, a curing of the adhesive layer by heat treatment is necessary. By doing so, the hot-melt layer is melted a little and thus stabilized for further processing. With multicoloured flock transfers, the final dyestuff curing is effected at this process. Water steam arising during the curing process (polycondensation) must be drawn off continuously in order to avoid humidity accumulating at the curing zone, which causes an incomplete fixation of the adhesive.
Transfer Process	By customary ironing presses with light to medium pressure. Standard values 150 - 190 °C, 30 - 10 sec., 2 - 5 bar (standard 180 °C, 20 sec) depending on working conditions and textile qualities.

Recommendation for Use

Before going into production, we recommend making it a rule to test first the suitability of the hot-melt adhesive powder in combination with the flock adhesives and papers used regarding wettability, adhesion respectively layer stability, fastness properties and process parameters and to control everything as well during the production run. Moreover, we urgently recommend testing the ready transfers as to their suitability for the substrate to be applied and the existing transfer conditions.

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

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