



## PRODUCT DATA SHEET

# TPU POWDER

The hot-melt “TPU POWDER” is intended to be applied to prints produced by DTF printers on HEXIS DTF films.

### **COMPOSITION:**

- Thermoplastic polyurethane (TPU) powder.

### **FEATURES:**

- Colour: white.
- Particles' size: from 80 to 200 µm.
- Powder's melting point: 130 °C to 140 °C (266 °F to 284 °F).
- Resistant to washing at 60 °C (140 °C).
- Resistant to tumble drying in synthetic mode.

### **USER'S INSTRUCTIONS:**

*Before using the TPU powder for the first time, it is advisable to carry out a test of all processing stages, comparable to the production conditions, in order to check the results obtained. Depending on the result, the parameters for film processing must be adjusted.*

- The powder can be used both in an automatic "powder shaker and dryer station" and by manual application.
- Apply the powder to the print whilst still being damp.
  - Using a "powder shaker and dryer station":
    - First set the heating temperature and the amount of powder to be applied.
    - Insert the freshly printed DTF film into the equipment.
    - The result achieved at the end of the drying process must be checked.
  - Manually:
    - The powder must be applied in the form of a thick line over the entire length or width of the film.
    - With the edges of the printed DTF film you must form a U parallel to the powder line.
    - To distribute the powder evenly on the printed surface, the film must be moved with rocking movements from right to left.
    - Turn the film over a trough to remove excess powder.
    - Heat the powdered film to between 130 °C and 140 °C (266 °F and 284 °F) for 3 minutes in order to melt the powder.
    - The result obtained after the melting process must be checked.

*The recovered excess powder can be reused.*

*Once the adhesive has cooled, the printed graphic can be stored for later application.*

- The graphic must be transferred on the garment at 150 °C (302 °F) for 12 seconds.
- The DTF film must be removed in accordance with the instructions described in the technical data sheet for the corresponding HEXIS DTF product.

## **STORAGE:**

- Shelf life: One year.
- Store the HEXIS TPU powder in its properly closed, original packaging, protected from moisture, at a temperature below 30 °C (86 °F).

## **NOTES:**

Due to the great variety of substrates and the growing number of new applications, the installer must check the suitability of the medium for each application. All of the published information is based on measurements regularly performed in the laboratory. The published information does not however constitute a binding guarantee. The seller cannot be held liable for indirectly related damages and assumes no liability for claims that are higher than the replacement value of the purchased product. All specifications are subject to potential changes without prior notice. Our specifications are automatically updated on our website [www.hexis-graphics.com](http://www.hexis-graphics.com).