



## TECHNICAL DATA SHEET – FLEX – PLOTTER VINYL REFLEX



Thermal bonding, retroreflective film, composed of a resin, glass micro-beads and an adhesive for heat transfer, intended, for example, for the confection of individual high visibility cotton or polyester safety clothing.

### **FILM FEATURES:**

#### Indicative value

- Thickness of film + adhesive (µm): 175
- Film colour: silver
- Retroreflective colour under artificial light: white
  
- Complies with the requirements of the EN ISO 20471 standard: 2013+A1: 2016:
  - Retroreflective properties:

Observer angle	Entrance angle	Measured reflection coefficient (cd/lux/m <sup>2</sup> )	Required minimum reflection coefficient (cd/lux/m <sup>2</sup> )
0.20° (12')	+5°	500	330

- Temperature variation cycles: 12 h at 50 °C (122 °F) / 20 h at -30 °C (-22 °F) / 2 h at 20 °C (68 °F).
- Washing and drying cycles: ISO 6330: 2012 method 2A: at 60 °C (140 °C) and gentle drying at 50 ±5 °C (122 °F) – 50 cycles.
- Abrasion: ISO 12947-2 method 2: 5000 rubs.

### **LINER:**

- Liner of the retroreflective side: 100-µm polyester film.

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

- It is preferable to apply the film to previously washed fabrics.
- Good adhesion to cotton and polyester. Carry out a test to check the resistance of the fabric to the press temperature and the compatibility of the flex film with the cloth. The application of the film to nylon or water-repellent fabrics is not recommended.
- Cut a mirror image.
- Weed after plotting.
- Preheat press and textile prior to application.
- Pressing temperature: 150 °C (302 °F) for 12 seconds.
- Carefully remove the liner while the flex film is still warm.
- After pressing, wait for at least 24 hours before washing the garment.

- The maximum washing temperature is 60 °C (140 °F). Turn your garment inside out for washing and use laundry products without bleaching agents. Choose a colour wash program without pre-washing of less than 50 minutes.
- Iron the textile inside out or protect the flex film with a pressing cloth, at low temperature, without using steam.
- For more information on the application method of FLEX Plotter Vinyls, please refer to the Application Guide on the "Professionals" pages, on our website [www.hexis-graphics.com](http://www.hexis-graphics.com).

## **STORAGE:**

- Shelf life (before application):  
The shelf life of this film is 1 year when stored in its unopened original packaging at a temperature ranging from 15 °C to 25 °C (+59 °F to +77 °F) with relative humidity between 30 % and 70 %.

## **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 the published information is based on measurements regularly performed in the laboratory. It 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).