

## UV Cured Digital Printable Polyester



### PRODUCT DESCRIPTION

A range of printable window films featuring high performance UV ink-jet receptive topcoatings which offer excellent ink adhesion. The polyester films, in combination with the correct UV inks, ink deposit and UV cure produces high performance printed window graphics. The optically clear film and adhesive ensures perfect see-through vision when applied to glass.

*Note: Products supplied with paper release liners will reduce clarity compared to films protected with polyester release liners.*

### ACCLIMATISATION

Prior to printing, store the material in the machine room for a minimum of 24 hours to acclimatize the product.

### PRINTING

When initially evaluating the LINTEC UV digital polyester range we recommend that you evaluate your digital printer, UV digital ink and curing in combination with the LINTEC film to ensure good adhesion after optimum UV cure. It is recommended to carry out crosshatch / Sellotape adhesion and wet test (detailed below). These tests should be carried out 24 hours after printing.

### INK DEPOSIT AND CURE

The amount of ink deposited onto the UV digital printable polyester should be the minimum amount of ink whilst still ensuring optimum print definition, saturation and performance. High coat weights of UV cured inks can cause issues with ensuring

100% cure of the ink. In general the higher the thickness the more brittle the ink will become leading to reduced scratch resistance. The bandwidth and intensity of UV light exposed to the UV cured ink should be regularly evaluated to ensure optimum cure (adhesion and scratch resistance) performance.

### IMPORTANT NOTES

1. If the film is not cured correctly it can introduce up-curl or 'wavy edges' into the product. As the film is designed to be wet applied curl can cause application issues. Product curl at point of application can cause delamination of the film from the glass due to the low adhesion level. It is therefore essential to evaluate all profiles and drying conditions as detailed within this document to ensure good lay-flat properties after printing.
2. It is essential to evaluate the water resistance of the ink system employed. Print the film with UV ink and wet with water, keep the ink soaked with water for a minimum of 5 minutes. After this time check ink scratch resistance. It has been noted some UV inks are hydroscopic and soften when wet. Please refer to the window film installation guidelines for more on this.

### PRINTED MATERIAL HANDLING

Once the print is dried the material should ideally be hung or left on a flat table to post cure. At this time the ink surface should be exposed to the air and not be in contact with another surface. We recommend 24 hours for full post cure the cure time before installation. Ensure the ink is fully cured before rewinding. If the ink is not fully cured, there is a risk of 'blocking' where the uncured ink bonds to the release liner when it is rewound onto a roll.

### PACKAGING FOR TRANSPORTATION

The media should be wound around a tube with ink out facing, poly bagged and then boxed.

### APPLICATION

1. The printed materials should be trimmed with new sharp cutting blade.
2. The area where the film is to be applied should be clean and free of any contamination such as silicone.
3. The printed film should be applied using the LINTEC application fluid, Blue solution, to ensure activation of the adhesive whilst using wet application methods. See separate LINTEC Application Instructions leaflet.

The representations of performance and suitability for use contained in this Data Sheet are meant only as a guide. Since only the user is aware of the specific conditions in which the product is to be used, it is the user's responsibility to determine whether the product is suitable for that intended use. Copyright 1995

