

VINYL CLEAR GLOSS ADHESIVE 0.075mm

For use in piëzo printers
Solvent base ink

May 2005 Data-sheet



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Material description

Vinyl Clear Gloss Adhesive is a high gloss clear adhesive Polymeric vinyl. The smooth UV protected surface ensures high quality printing with good area fillings and sharp images. This film is the first choice for making high quality applications.

Adhesive Vinyl is connected on a PE coated release liner. During printing ideal flat laying properties and better heat transfer to the vinyl.

Chemical resistance

Vinyl Clear Gloss adhesive is resistant to most oils and fats, fuels, aliphatic solvents, mild acids, salts and alkali such as:

| Test agent | Test time | Test result |
|-------------------------|-----------|-------------|
| Salt water 10°C to 75°C | 2000h | no effect |
| Motor oil 20W/50 | 500h | no effect |
| Transmission fluid | 500h | no effect |
| Anti frost | 500h | no effect |
| Petrol | 24h | no effect |

Test method:

Samples of Vinyl Clear Gloss were applied to enamelled steel-sheet one hour before testing. Samples were immersed in the specified test-agent at room temperature then removed after the test times noted above.

Specifications

| | |
|--|--------------------------------|
| Thickness | Clear gloss vinyl 0.075 mm |
| Print side | Gloss |
| Reverse side | PE Silicone Paper releaseliner |
| Adhesive | Solvent acrylic based |
| Type vinyl | Polymeric calendered vinyl |
| Tensile strength at break: N/mm ² (Speed 200 mm/min) | MD min. 28 CD min. 26 |
| Dimensional stability: 48h at 70°C | <0.03% shrinkage |
| Elongation at break | MD min. 150% CD min. 200% |
| Adhesive Weight | 24 g/m ² |
| Adhesive adhesion | >19N/25mm finat-1 test |
| Country of origin | EU |

Compatibility

Inkjet piëzo printers (Solvent base ink):

See Compatibility list

Make your own practical test to be sure it reaches your quality standard.
For all- and latest information see our compatibility list.

Data mentioned in this product data sheet represents a guide-line. Before using our media please make sure that suitability is secured for your printer. We cannot take liability for any damages which result from changes in printing inks and or printers.

TEPEDE shall not be liable for changes in product design because of new technical developments and may occur without notification.

Qualifications

- Polymeric calendered quality
- Gloss clear UV protected adhesive vinyl
- Excellent printability
- Brilliant colours with excellent sharp edge definition.
- Cadmium Free
- Solvent based acrylic adhesive
- PE (Poly ethylene) Siliconised craft coated double calendered backing paper for better flat laying properties

Durability

Average durability is **3 to 5 years** in middle European conditions. Exposure to severe temperatures, intense ultra-violet light, as well as conditions in southern-European countries, tropical, sub-tropical, desert regions, in industrially polluted areas or high altitudes, may reduce durability to four years or less.

Correct substrate preparation and maintenance of vinyl will enhance durability.

Applications

- In and outdoor advertising
- Fleet marking
- Stand building
- Indoor durable signs and displays
- Exhibitions
- Events
- Shop displays

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Guidelines + Details

Temperature ranges

| | |
|-------------------|------------------|
| Application | >10°C |
| End-use | - 40°C to + 90°C |
| Storage (optimum) | 15°C to 20°C |

Printing

Always choose the right media for the right job. There are different kinds of inks with different kind of properties. When printing with UV stable pigment ink it's normal that the colours are different than the dye inks. Refer to the TEPEDE compatibility list for information.

Recommendations

- Before application, surface has to be clean from dust and grease.
- Surface and substrate must have the right and same temperature.
- No tension during application.
- Respect saturation point of vinyl from ink.
- Printed substrate has to be dry: let the print 'breathe' during at least 1 week before application so that the solvents can exit into the free air.
- Protect edges and overlaps against the driving direction of the vehicle
- Avoid industrial car wash; certainly avoid 'methanol' as cleaning product.
- Avoid spraying with high pressure cleaner against the overlap.

Influence of solvent ink on substrate

Influence of migration of solvent ink towards PVC and adhesive is tested permanently. Solvent inks definitely attack PVC and adhesive properties and characteristics: adhesion, cohesion, deposit of adhesive etc... **DON'T UNDERMESTIMATE THIS!** Big losses in adhesion are influenced by the kind of PVC used, the kind and amount of solvents in the ink, conditioning after printing (be aware that ventilation and evaporation of solvents is strictly necessary).

Recommended application surfaces

Aluminium, car enamel, glass, stainless steel, ABS, Plexiglas.

The Vinyl is designed for use on smooth surfaces.

After printing

To prevent smears, let your prints dry completely. When laminating (cold) let your prints dry 20 minutes more before starting to laminate.

Trouble shooting

Check that the media is compatible with your plotter and ink.

Choose the right print mode (for example: draft-, normal- or best mode, B&W or Colour)

Check the media setting (If this exist) UV Opaque Vinyl, film, etc.

Perform cartridge alignment procedure if necessary. If required clean the cartridges

Color calibration

As with all inkjet media, the product should be calibrated to the printer, to get the best result.

Loading instructions

Switching off the cutter is recommended.

The rate at which ink is consumed over a given area varies between different printers and printer set-ups. When loading the media use the right set-up (mode) that gives the highest quality output.

Shelf life and environment aspects

The shelf life is 3 years under normal conditions (10–25°C at a relative humidity of 30–75 %). Higher humidity and/or temperature can affect the product performance. Always store the media in a dark place.

Ecology

The media and the final plots can be handled and disposed of as photographic vinyl or other similar inkjet vinyl media. For the treatment of ink or ink residue, please refer to your printer manual or supplier.

Help available

If there are questions about media, just ask the TEPEDE sales department. They will inform you properly about our media program.

Note

Specifications subject to change without notice.