

Synergy vinyl 100 WGG/WMG 0.100mm
For use in piëzo inkjet printers
Solvent / Latex base ink

April 2012 Data-sheet



Material description

Synergy vinyl 100 WGG (White Gloss Grey) or WMG (White Matt Grey) is a high gloss white or a matt white adhesive vinyl with a grey adhesive reverse side. Formulated to promote quick drying of inks and resins.

The micron-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 and low cost advertisings or labels.

Chemical resistance

Synergy vinyl 100 WGG/WMG 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 Synergy vinyl 100 WGG/WMG 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	White gloss/matt vinyl 0,100mm
Print side	Gloss/Matt
Reverse side	Silicone Paper release liner
Adhesive	Solvent grey acrylic based
Type vinyl	Monomeric 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	23 g/m ²
Adhesive adhesion	>19N/25mm finat-1 test

Compatibility

Inkjet piëzo printers (Solvent / Latex base ink):

Vutek, Nur, Idanit, Scitex

Mutoh, Seiko, Roland, Mimaki, Epson, Latex

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

Qualifications

- Gloss/Matt white UV protected adhesive vinyl
- Solvent based grey acrylic adhesive (block out)
- Excellent printability
- Monomeric calendered quality
- Brilliant colours with excellent sharp edge definition.
- Cadmium Free
- Solvent based grey acrylic adhesive
- Siliconised craft coated double calendered backing paper

Durability

Average durability is **up to 3 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
- Stand building
- Indoor durable signs and displays
- Exhibitions
- Events
- Shop displays

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.

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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 UNDERESTIMATE 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.