

# Penstick Digital Static Cling

## Clings without adhesive

### Description

Premium grade gloss/matt/white/clear, Polyvinyl chloride calendered film with self cling properties for use on large format solvent and eco-solvent based inkjet printers. Clings without glue to most clean and glossy surfaces by intermolecular attraction. Easy placement, removal and reuse. No adhesive, hence no glue residue. Not recommended for childrens toys. No lamination required. It is recommended to test the inks and the converting process on the actual plastic film to be used before commencing production runs.

Excellent water resistance, can be wiped clean using water and soft household detergent. Immersion in most esters, ketones, gasoline etc. is not recommended.

### Application

For signs requiring simple application or reuse. Labels for promotion, publicity, identification, decoration, information on equipment, utensils, TV-screens, storefront windows, educational games and teaching aids.

### Product Specifications

FILM		
Material	Plasticised PVC (Phthalate-free)	
Thickness	150 µm (±10%) (DIN 53370 48h after separation)	
Density	Plasticised PVC (Phthalate-free)	
Colour/Surface	clear or white glossy	
Surface Tension	35 mN/m (±2 mN/m)	
Optical Transparency	slight flow-lines, occasional fisheyes, slightly mat	
Shrinkage	1 minute after separation from backing paper: MD about - 4%; CD + 1%.	
Adhesion	0,08N/25mm (FTM 1) on clean glass	
Application Temperature	min. + 5°C	
Service Temperature Range	-20°C bis +70°C	
Expected Life Time	indoors 3 years; outdoors 1 year (Central Europe)	
LINER		
Typ 4152	Material	Castline: cast coated cardboard, white surfaced, printable backside
	Thickness	165 µm (± 7,5%)
	Grammage	130 g/m² (± 7,5%)
LAMINATE		
Typ 4152	Thickness	315 µm (± 9%)

CONVERTING	
Printability	Solvent inkjet, Eco- and Mild-Solvent Inks
Plotting	Good plotting characteristics with card-board liner.
Remarks	The application at the printed side must take place only on glass. By application on plastics and lacquers reactions between surface and Solvent-Ink are possible. Using Eco- and Mild-Solvent inks residues on the glass surface are possible.
REGULATIONS & STANDARDS	
The material has been tested against the following regulations and standards:	EN 71-3 (Safety of toys, migration of heavy metals) EN 71 Part 9-11 (Safety of toys, migration of Solvents, Monomers, Plasticizers) DIN 53160 (Resistance to perspiration and saliva 6/1974) according to this Regulation (EC) 1907/2006 suitable for toys and childcare articles 2011/65/EU (RoHS - restriction of hazardous substances 06/2011)
GENERAL	
Formats	914mm/ 1.370mm /1.524mm x 25m
Size Tolerance	± 2mm over 1.000 mm (± 0,3%)
Storage Stability	1 year original packaging 21°C (70°F)/50% RH
Special Properties	cling vinyl that: - clings without adhesive on smooth, glossy surfaces (like glass, PET, PMMA, PC, ...) could be easily removed - leaves no residues (in combination with lacquers and plastics the compatibility must be tested) - could be reused / reapplied - adheres on both sides (also on the printed side - solvent inkjet)

**All technical properties are typical values.**

**PRODUCT PERFORMANCE AND SUITABILITY**  
All Statements, technical information and recommendations about our products are obtained from tests believed to be reliable. They are provided as a

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#### PRODUCT PERFORMANCE AND SUITABILITY

All Statements, technical information and recommendations about our products are obtained from tests believed to be reliable. They are provided as a guide and shall in no event constitute a warranty of any kind. Therefore no responsibility is undertaken either for the result deriving from their adoption or for any claims or liability arising from the use of the material. It is not recommended to swallow pieces of film. Because conditions of use are beyond our control, all products are sold with the express understanding that the purchaser has independently determined the suitability of such products for its purpose. Subject to technical changes without prior notice.