

PENSTICK® Digital 4152 CLS / 4152 WHS

Cling film for Digital Printing



Film		
Material	plasticised PVC (Phthalate-free)	
Thickness	150 µm (± 10%) (DIN 53370 48h after separation)	
Density	1,3 g/cm³ (± 10%)	
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	0,08 N/25 mm (FTM 1) on clean glass	
Application Temperature	min. + 5 °C	
Service Temperature Range	-20 °C until +70 °C	
Expected Life Time	indoors 5 years; outdoors 2 year (Central Europe)	
Liner		
Typ 4152	Material	Castline: cast coated cardboard, white surfaced, printable backside
	Thickness	148 µm (± 7,5%)
	Grammage	135 g/m² (± 7,5%)
Laminate		
Typ 4152	Thickness	298 µm (± 9%)
Converting		
Printability	Solvent inkjet, Eco- and Mild-Solvent Inks, Latex Inks (for Latex printing the material should not be older than 3 months)	
Plotting	Good plotting characteristics with cardboard liner.	
Remark	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 and Standards		
The material has been tested against the following regulations and standards:	<ul style="list-style-type: none"> ▪ EN 71-3 (Safety of toys, migration of heavy metals) ▪ EN 71 Part 9-11 (Safety of toys, migration of Solvents, Monomers, Plasticizers) ▪ according to Regulation (EC) 1907/2006 suitable for toys and childcare articles ▪ 2011/65/EU (RoHS - restriction of hazardous substances 06/2011) 	
General		
Formats	914mm x 25 m 1.370mm x 25 m 1.524mm x 25 m	
Size Tolerance	± 2 mm over 1.000 mm (± 0,3 %)	
Storage Stability	max. 6 months original packaging 21°C (70°F)/50% RH	
Special Properties	PENSTICK® Digital is a cling vinyl that <ul style="list-style-type: none"> ▪ 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 guide and shall in no event constitute a warranty of any kind. MOLCO therefore undertakes no responsibility 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.

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