

Film		
Material	plasticised PVC (Phthalate-free)	
Thickness	150 µm ( ± 10%) (DIN 53370 48h after separation)	
Density	1,229 g/m³ ( ± 5%)	
Colour/Surface	transparent (CL) and white (WH) glossy	
Surface Tension	35mN/m (±2 mN/m)	
Optical Transparency	transparent: waterclear, flow-lines, fisheyes, slightly mat; white: opaque	
Shrinkage	1 minute after separation from backing paper: MD about - 4%; CD + 1%.	
Adhesion	0,06N/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 3156	Material	KraftCoat: prime kraft paper, white surfaced, PE-coating on front side, printable backside
	Thickness	241 µm ( ± 14%)
	Grammage	215 g/m² ( ± 8%)
Laminate		
Typ 3156	Thickness	391 µm ( ± 9%)
Converting		
Printability	screen printing	
Die Cutting	Good die cutting characteristics with kraft paper liner.	
Regulations and Standards		
The material has been tested against the following regulations and standards:	<ul style="list-style-type: none"> <li>▪ EN 71-3 (Safety of toys, migration of heavy metals)</li> <li>▪ EN 71 Part 9-11 (Safety of toys, migration of Solvents, Monomers, Plasticizers)</li> <li>▪ DIN 53160 (Resistance to perspiration and saliva 6/1974)</li> <li>▪ according to this Regulation (EC) 1907/2006 suitable for toys and childcare articles</li> <li>▪ 2011/65/EU (RoHS - restriction of hazardous substances 06/2011)</li> </ul>	
General		
Formats	Standard format sheet: 700 mm x 1.000 mm Special formats on request.	
Size Tolerance	± 2mm over 1.000 mm ( ± 0,3%)	
Storage Stability	1 year original packaging 21 °C (70 °F)/50% RH. The surface of the film may be marked by the back side of the release liner, due to time, temperature and stack height. For better gloss and transparency use fresh material and print clear lacquer.	
Special Properties	PENSTICK® is a cling vinyl that <ul style="list-style-type: none"> <li>▪ clings without adhesive on smooth, glossy surfaces (like glass, PET, PMMA, PC, .....)</li> <li>▪ could be easily removed</li> <li>▪ leaves no residues (in combination with lacquers and plastics the compatibility must be tested)</li> <li>▪ could be reused / reapplied.</li> </ul>	

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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