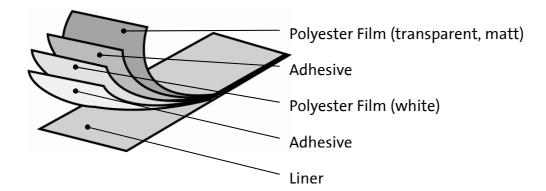
DIOMASTER HPV MATI Technical Data Sheet – Subject to change

DIOMASTER HPV MATT

4.156.04.01.00.35





Structure and Characteristics

Manufacturing Process: Digital Printing

Base Material: Polyester Film (transparent, matt)

Adhesive: Permanent

Material: Polyester Film (white)

Adhesive: HPV

Liner: approx. 0,052 mm Label thickness (without liner): approx. 0,297 mm

Extremely robust due to reverse printing. Scratch and smear-resistant as the barcode is protected with a polyester film. Due to the strength and tear resistance of the material the label can also be tacked

Multi-colour logos, fonts, graphics and photos are possible.

The adhesive HPV is in accordance with the provisions of Regulation No. (EG) 1935/2004 of the European Parliament and of the Council of October 27th 2004 for materials and articles with food contact. The adhesive also complies with the requirements of German Foods, Consumer Goods and Feedstuffs Codes (LFGB) in its version of June 3rd 2013 BGBI.IS.1426.

Typical Uses and Applications

Palette labelling, inventory labelling, warehouse shelf labelling, container identification.

Processing Instructions

When processing this product please refer to the corresponding processing instruction sheet FB 362 – Processing Instructions for Barcode Labels.

__inotec Barcode Security GmbH_

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Test results

Adhesion								
Peel Strength Glass Steel (1.4301 polished) Polypropylene Polyethylene	After 20 Min. 42 44 36 30		After 24 h 45 46 38 32		[N/20mm]	Adapted from DIN EN 1939		
Chemical Resistance	1							
Testing to the following liquid	S:							
Test condition / Time period	1h *'	*)	2h **)	6h **)	24h **)			
Petroleum Spirit Heptane Antifreeze Diesel Soap Lye Cold Cleaning Solvent Distilled Water Salt Lye Acetic acid 80% Acetone	ok		- ok ok ok ok ok ok ok ok ok	ok ok ok ok ok ok ok	- ok - ok ok ok ok ok	**) Labels are affixed to a metal surface. After 24 hours they were placed in a water bath at a temperature of approx. 21°C.		
Testing in liquids at higher temperatures								
Soap Lye (1,0% NaOH + 0,5% P3 Aquanta XTR)						70°C, 40 min.		
Attrition Test with the following	ng liquids							
MEK (Methyl ethyl ketone) IPA (Isopropanol)	>500 >500 Abrasive Moveme				nents	10N /1cm²; Over the entire length of the label		
Resistance to Washi	ng							
Wash Test on a PP surface with	h the follo	wing	parameters (d	lirect positioni	ng of the nozz	le to the label)		
Water (0°dH), 50 bar, Up to +80° C	150 nozzle movements over the label. Nozzle type: High pressure steam 40°, Kärcher 2.884- 523, Process speed: 80 mm/s Distance nozzle – test plate: 50mm					No visible separation of the label		
Resistance to Mecha	nical \	Nea	r					
Hardness Measurement on pro	otective su	urface	layers					
Testing on both a PP and a metal surface	10			[N]		Erichsen Hardness Test Pencil Model 318 / van Laar testing geometry (0,5mm)		
Attrition Test on protective su	rface laye	rs						
Label to be tested is affixed to a cardboard tube	>15.000			[U]		14 rpm; 10N/ 4mm²		
UV-Resistance								
Weathering Test (Colour: proz	ess black)	Furth	er colours upo	on request!				
Label to be tested is affixed to a glass surface		>1.000		[h]		Adapted from ISO 4892-2, method A, cycle 2		
Temperature Resista	nce							
Cold / Heat Test								
Label to be tested is affixed to a PP surface		Label does not detach from the surface			-40°C / 24h +100°C / 24h			
					1200 € / 2411			

Important Notice:

All information represented here is based on results from our internal tests. This does not obviate the need for every user to independently ensure that the product is suitable for the foreseen application. Unless statutory provisions stipulate otherwise our General Terms and Conditions covering all matters concerning warranty and liability are applicable to this product.

inotec Barcode Security GmbH

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