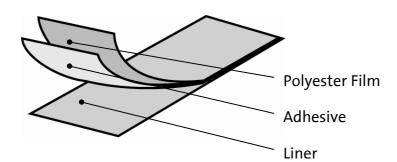
POLYMASTER HL

9.18.00.05.00.13



POLYMASTER HL

Technical Data Sheet – subject to change



Structure and Characteristics

Manufacturing Process: Photo Setting

Base Material: Polyester Film 0.08 mm

Adhesive: HL

Liner: ca. 0.078 mm Label Thickness (without Liner): ca. 0.162 mm

Modified acrylate adhesive, permanent bonding. Diffusion-free.

Conforms to the provisions of Regulation (EC) No. 1935/2004 on materials and articles intended to come into contact with food. Moreover, the adhesive strips are approved in accordance with DIN EN ISO 3826-1 "Plastic collapsible containers for human blood and blood components. Part 1: Conventional containers", April 2004 edition, as these are proven to have no hazardous effects on the blood.

Extremely scratch-resistant and moisture-resistant, as the barcode information is photoset onto the polyester material. Minimal lateral contact surface due to single component structure.

Typical Uses and Applications

Warehouse shelf labelling, high-quality name plates, varnished metal surfaces, media labelling

Processing Instructions

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

Erstellt 26.05.2009 / MS FB Nr. E 522 Rev. B 1 - 2

POLYMASTER HL Technical Data Sheet – subject to change

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Test Results



rest Results				
Adhesion				
Peel Strength Glass Steel Polypropylene Polyethylene	after 20 min 17 17 12 13	after 24 h 19 19 15	[N/20mm]	Adapted from FTM 1
Chemical Resistance				
Testing in the following liquids on a me	etal base at room ter	mperature, ca. 21°C		
Petroleum Spirit Antifreeze Diesel Soap Lye Distilled Water	24 h 24 h 24 h 24 h 24 h	Salt ad Acetic acid Acetone		24 h 24 h 24 h
Testing in liquids on a PE base at higher	r temperatures			
Soap Lye (NaOH + Cleanser)	70°C, 20 min			
Attrition Test with the following liquid	S			
MEK (Methyl ethyl ketone) IPA (Isopropanol)	1,000 1,000	Abrasive Mov	rements	1kg /1cm²; Run length ca. 20 cm
Resistance to Washing				
Wash Test on a PE base with the follow	ring parameters (dire	ect positioning of th	ne nozzle toward the	label)
Water (11.9°dH), 20 bar, +30° C	150 nozzle movements over the label. Nozzle type: high pressure stream 25°, Kärcher 47671500, Process speed: 80mm/s Distance nozzle – test plate: 50mm			No separation of the label is visible
Resistance to Mechanical	Wear			
Hardness Measurement on protective s	surface layers			
Testing on a PP base	20	[N]	Erichsen Hardness Test Pencil Model 318 / van Laar testing geometry (0.5mm)	
Attrition Test on protective surface layer	ers			
Label to be tested is affixed to a cardboard tube	10,000	[R]	14 rpm; 1kg/ 4mm²	
UV Resistance				
Weathering Test				
Label to be tested is affixed to a glass surface	1,226	[h]	Adapted from ISO 11341 Cycle A (exposition) and C (weathering)	
Temperature Resistance				
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Important Notice

Labels are attached to a PP test plate

Cold / Heat Test

All information presented 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.

Label does not detach from the PP

test plate

__inotec Barcode Security GmbH_

-32°C / 24h

+100°C / 4h

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