

ENGINEERING DATA SHEET

DSM 3.9.7

ASMPT

Polymeric Vinyl Label

(70 Micron + 70 Micron) / (100 Micron + 51 Micron)

General:

PVC (vinyl) is a fire-resistant plastic, the only exception among the general-purpose plastics, since more than 50% of its constituent is derived from salt. It is most versatile & widely used of polymers with excellent electrical insulating & chemical properties.

The PVC melt is exposed to heat and pressure in an extruder and formed into sheet or film by **calendering** rollers. Temperature & speed of the rollers influence the properties of the film whilst the last pair applies the surface finish (texture) & thickness.

Unlike **cast** PVC, this version has a 'memory' and is considered not dimensionally stable & better suited for flat applications.

Benefits:

- High bond adhesive: Recommended for "Difficult to stick to" surfaces and smooth low energy plastic such as PE and PP.
- Calendered film process increases resistance to abrasion.
- Good chemical resistance.
- Suitable for wet application.
- Ideal for outdoor application.

Limitations:

- Not suitable for application over rivets or complex recesses.
- Suitable for flat & moderate curves.
- Limited sizes and colour available.
- Expensive.

ASMPT (DEK) Applications:

- **Product Labels** – Must have an overlamine applied to label.
- **Machine & Warning Labels** – Must have an overlamine applied to label.
- **Company Logo Labels** – Must have an overlamine applied to label.
- **Overpack Labels** – Does not need to be overlamine applied to label.
- **Packing labels** – Does not need to be overlamine applied to label.

Base Material for Label:

These values are representative. For critical applications, refer to datasheet.

MECHANICAL PROPERTIES UK SUPPLY					
MATERIAL DETAILS	TENSILE STRENGTH:	YOUNGS MODULUS:	POISSONS RATIO:	DENSITY:	THICKNESS:
Metamark MD5-H-B	47 MPa	3.0 GPa	0.35	1400 Kg/m ³	70 Microns
ACCEPTABLE ALTERNATIVE FOR ASIA REGION					
MATERIAL DETAILS	TENSILE STRENGTH:	YOUNGS MODULUS:	POISSONS RATIO:	DENSITY:	THICKNESS:
3M3650-10	25 MPa	---	---	1500 Kg/m ³	100 Microns

Issue	01	02	03	04	05	06	07	08
Date	41974	44832	45292	23/09/2021	20/12/2024			

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Overlamine for Base Material:

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MECHANICAL PROPERTIES UK SUPPLY		
MATERIAL DETAILS	THICKNESS:	FINISHES AVAILABLE:
MetaGuard 700	70 Microns	MG-705 Gloss
ACCEPTABLE ALTERNATIVE FOR ASIA REGION		
MATERIAL DETAILS	THICKNESS:	
3M 8518 Gloss	50.8 Microns	

Alternatives:

Alternative polymers are allowed only with the express written permission of ASMPT. Please email details of your request to engineering_enquiries@asmpt.com

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