

# BOPP Matte Thermal Laminating Film

## Product Description

It is a BOPP based product with an excellent matte finish that minimizes glare while preserving image as well as creating a luxury feel to the look of books, brochures, luxury packaging and other printed materials. The Matte film accepts UV spot varnishing, foil stamping as well as screen printing. The product is a non-toxic and environmentally friendly, low level of static, consistent corona treatment, excellent resistance to tear & elongation, primarily used in the printing industry.

## Features and Benefits

1. Environmental safety: This product is non-toxic, tasteless, non-benzene. Do not produce any gases or dangerous substances during the lamination process, without the use of solvents.
2. Excellent performance: The Matte surface minimizes glare while preserving image color, strong adhesive bond strength, and good offset spray coverage. Good initial green tack allows post finishing activities to take place after lamination based upon drying time of the inks.
3. High efficiency energy-saving: Constant adhesive layer enable a quick turnaround of the job, quicker set up time, lower energy consumption, less waste and ease of process.

## Application

1. Books cover such as: Paper bags, hard bound books, magazines, flyers, map, promotional materials, etc.
2. Various types of packaging materials such as: Flute boxes, cosmetic boxes, pharmaceutical, gift boxes etc.
3. Advertising such as: POS, boards, documents, photo albums etc.

## Product Structure

Surface Layer: BOPP Film.

Inner Layer: Hot Melt Adhesive.

## Typical Properties

Item	Typical value	Test Method
Thickness, $\mu\text{m}$	26	GB/T6672
BOPP Thickness, $\mu\text{m}$	13	GB/T6672
Adhesive Thickness, $\mu\text{m}$	13	GB/T6672
Yield, $\text{m}^2/\text{kg}$	46.9	
Wetting Tension, $\text{mN/m}$ BOPP surface Single treated double treated Adhesive surface	$\geq 30$ $\geq 40$ $\geq 40$	GB/T14216
Gloss ( $45^\circ$ ), %	$\leq 8$	GB/T8807
Haze, %	$\geq 70$	ASTM D1003
C.O.F. out/out	$\leq 0.4$	ASTM D1894
Heat Shrinkage, % MD TD	$\leq 3$ $\leq 1.5$	Q/CPKDX0001 <sup>1</sup> (30s@ 120°C)
Tensile Strength, MPa MD TD	$\geq 60$ $\geq 100$	GB/T1040.3
Elongation at Break, % MD TD	$\leq 210$ $\leq 70$	GB/T1040.3

## Application Technology

Laminating equipment: thermal laminating machine

Temperature: 95-120°C

Pressure: 8-18MPa

Speed: 10-70m/min

Adjust the processing parameter according to the production job requirement.

## Shelf Life

12 months.

<sup>1</sup> Q/CPKDX0001 is a corporate standard of KDX.



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The Values given in the technical data sheet represent typical values based on the best of our knowledge as on date when the data was compiled. It is offered solely to provide possible suggestions for your own experimentation and not as a guarantee for the material supplied. The user is solely responsible for the end use of the product and needs to perform their own tests to confirm the product suitability / compatibility in all respects. KDX gives no warranty or accept liability for any loss and fitness of the product for any specific purpose. KDX reserves the right to change the technical data sheet at any time for enhancing the quality of the products without prior information regarding use and we disclaim liability for any loss or damage that may occur from the use of this information.





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