

METALIZED BOPET COMPOSITES

PE ReadyLam LAMINATING FILM FOR

HP INDIGO PACK READY



■ PRODUCT DESCRIPTION

It is a metalized BOPET based laminating film that one side laminated with LDPE and the other side laminated with thermal active polymer. The metalized BOPET base film is plasma treated to enhance aluminum adhesion and barrier properties. The final product has Excellent slip properties, and with excellent machinability on high speed machines.

The thermal active polymer is designed especially for improving the bonding with HP Indigo digital printing jobs. Compared to the ordinary BOPET ReadyLam laminating film, the peel strength is greatly improved, and have a better grasping ink effect.

The film primarily used in printing and flexible packaging industry, and especially used in conjunction with output of HP Indigo 20000/6800 etc. digital press for pack ready technology in flexible packaging market by end to end solution.

■ FEATURES AND BENEFITS

1. Excellent performance: Good aluminum adhesion and barrier properties, excellent slip and antistatic properties, strong adhesive force with digital printing jobs, effectively prevent the printing foaming and stripping after the die-cutting bump.
2. High efficiency: No need of drying and curing after laminating, immediate time to market.
3. Energy-saving: Laminating temperature is lower than other thermal film, improve efficiency, save cost.

■ TYPICAL PROPERTIES

PROPERTIES	VALUE	TEST METHOD
Thickness, mil	3.0	GB/T6672
Yield, m2/kg	12.5	—
Wetting Tension, mN/m		
Thermal active polymer Surface	≥42	GB/T14216
LDPE Surface	≥32	
Haze, %	100	ASTM D1003
Heat Shrinkage, %		
MD	0	Q/CPKDX
TD	0	(1 20℃ 0S)
Coefficient of Friction		
Outside / Outside	0.12	GB/T10006
Lamination strength[1], N/inch	≥5.0	ASTM D1876
Seal strength[2], N/inch	≥50	GB/T12026-2000
WVTR, g/(m².24h)	≤1	BB/T0030-2004
OTR, cm3/m².24h.0.1MPa	≤1	BB/T0030-2004

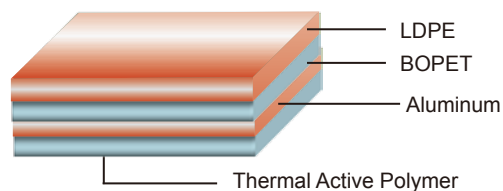
■ APPLICATION

Matching with HP Indigo Pack Ready system as flexible packaging material, for single web or lamination structure packaging, such as: digital printing materials, pouching products etc.

End-user area: bakery, confectionery, chocolate, biscuits, cookie, crisps and snacks, pet food, household and detergents, etc.

■ PRODUCT STRUCTURE

Surface Layer: LDPE Film.
Middle layer: Metalized BOPET
Inner Layer: Thermal active polymer.



■ APPLICATION TECHNOLOGY

Laminating equipment: thermal laminating machine
Laminating Equipment : thermal laminating machine
Temperature : 90-130℃ Pressure : 8-18MPa Speed : 10-70m/min
Adjust the processing parameter according to the production job requirement.

■ STORAGE AND HANDLING

- Keep upright in a clean, dry and ventilated warehouse; avoid storage in direct sunlight or near sources of heat less than 2m, or any UV radiation.
- Storage temperature less than 34℃.
- In order to avoid damage to the film surface or end surface, avoid collision during product transportation, loading and unloading process.
- When used the thermal laminating film in winter, should put the film in the operating room, balance the temperature higher than 18℃ and then processed.

■ REGULATION & STATUS

The product have obtained regulatory approval according to FDA standard 21CFR 175.300 and (EU) No 10/2011 of January 2011, GB9683-88 for food related application.

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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