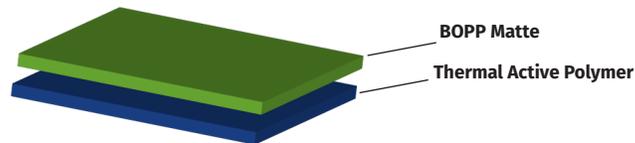


BOPP MATTE THERMAL LAMINATING FILM



It is a BOPP matte-based thermal laminating film, that has one side laminated with thermal active polymer with very high hot-tack and seal strength. It has excellent machinability on high-speed machines and great optical properties.

It is food compliant and its thermal active polymer is specifically designed to improve the bond strength with digitally printed surfaces. Compared to ordinary BOPP thermal laminating film, the peel strength is greatly improved and has a better grasping ink effect.

The BOPP Matte thermal film is suitable for fin-seal applications. It is not intended for lap-sealing application purposes.

Features	Benefits
Excellent performance	It has strong adhesive force on digitally printed surfaces and effectively prevent ink flaking and stripping after die-cutting and other finishing demands.
High efficiency	No need of drying and curing after laminating, immediate time to market.
Energy-saving	Laminating temperature is lower than other thermal film, improve efficiency, save cost.
Food Compliance	The product has obtained regulatory approval according to (EU) No 10/2011 of January 2011, GB9683-88 and FDA standard 21CFR 175.300 for food related application.
Customer Validated	Yes

BOPP MATTE THERMAL LAMINATING FILM



Property	Expected Value	Unit of Measure	Reference Method
Color	Matte/Transparent	N/A	Unprinted- Visual Observation
Total Thickness	26	microns	GB/T6672
BOPP Thickness	13	microns	GB/T6672
Adhesive Thickness	13	microns	GB/T6672
Yield	47.4	m ² /kg	N/A
Wetting Tension			
Adhesive Surface BOPP Surface	≥ 40 (two sides treated) ≥ 30 (one side treated)	mN/m	GB/T14216
Gloss (45°)	≥ 8	%	GB/T8807
Haze	≥ 70	%	ASTM D1003
Heat Shrinkage			
MD TD	≤ 3 ≤ 1.5	%	Q/CPKDX0001 (120°C 30S)
Coefficient of Friction Outside / Outside	≤ 0.4	-	ASTM D1894
WVTR	7.5	g/(m ² .24h)	BB/T0030-2004
OTR	>200 (exceeding instrument range)	m ³ /m ² .24h.o1MPa	BB/T0030-2004
Shelf life	12	Months	Keep upright in a clean, dry and ventilated warehouse. Storage temperature less than 34°C.

Film Storage: To maintain the high quality of this product during storage, it is recommended that this film be stored in its original wrapping, tucked inside the core, and away from any source of local heating or direct sunlight. Recommended conditions of storage are: Temperature: 15°-24° C. Relative Humidity: 35-55%.

RoHS: Based on information obtained from our component suppliers, this certifies that All S-OneLP products are “RoHS” compliant and do not exceed the specific migration levels of heavy metals. Nor are other substances intentionally added, such as: Phthalates, Lead, Cadmium, Mercury, Hexavalent Chromium, Sum of PBBs, Sum of PBDEs, Halogen, Soluble Heavy Metal Contents, and Substances in the Candidate List of SVHC.

REACH: Based on information obtained from our component suppliers, this document also certifies that S-OneLP products are REACH compliant concerning the Registration, Evaluation, Authorization, and Restriction of Chemicals. The materials provided are latex free.

The information on this data sheet has been established by company-based laboratory testing. This information does not imply warranty by S-One Labels & Packaging LLC for product specifications, tolerances, or function in the end use. It is the customer’s responsibility to perform tests to determine the product’s fitness for use for a particular purpose prior to using the product. This document is confidential and may be legally privileged. If you are not an intended recipient or an authorized representative of an intended recipient, you are prohibited from using, copying or distributing the information in this document.