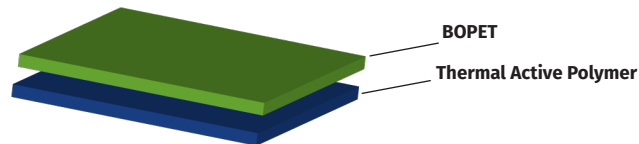


BOPET GLOSS THERMAL LAMINATING FILM



It is a BOPET-based thermal laminating film with excellent transparency, with high gloss that improves the color saturation. This product also has excellent resistance to tear and elongation.

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

This thermal film is primarily used in the digital flexible packaging industry, especially with HP Indigo printable flexible packaging films.

| Features | Benefits |
|-----------------------|---|
| Excellent performance | Greatly enhance the colour saturation and brightness, 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. |

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| Property | Expected Value | Unit of Measure | Reference Method |
|--|-------------------|---|--|
| Color | Gloss/Transparent | NA | Unprinted- Visual Observation |
| Total Thickness | 20 | microns | GB/T6672 |
| BOPET Thickness | 12 | microns | GB/T6672 |
| Thermal active polymer Thickness | 8 | microns | GB/T6672 |
| Yield | 41.6 | m ² /kg | N/A |
| Tensile Strength MD TD | 112 121 | MPa | GB/T1040 |
| Elongation at Break MD TD | 100 111 | % | GB/T1040 |
| Wetting Tension Thermal active polymer Surface BOPET Surface | ≥ 42 ≥32 | mN/m | GB/T1040 |
| Gloss (45°) | 83.5 | % | ASTM D1003 |
| Haze | 5.3 | % | ASTM D1003 |
| Heat Shrinkage MD TD | 0 0 | % | Q/CPKDX (120°C 30S) |
| Coefficient of Friction Outside / Outside | 0.45 | - | GB/T10006 |
| Lamination strength | ≥ 5.0 | N/inch | GB/T12026-2000 |
| WVTR | 35 | g/(m ² .24h) | BB/T0030-2004 |
| OTR | 60 | 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.

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