



# 山东顺展新材料有限公司 Shandong Shunzhan New Materials Co., Ltd.

## BOPP品质检测报告 (BOPP Quality Test Report)

|                             |                                                                                                                                                                                                                                   |                                 |                 |                 |           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-----------------|-----------------|-----------|
| 产品规格                        |                                                                                                                                                                                                                                   | 预涂触感膜28μm                       |                 | 生产时间            | 2026-2-5  |
| Sample                      |                                                                                                                                                                                                                                   | Pre-coated Soft-Touch Film 28μm |                 | Production Date |           |
| 测试环境                        |                                                                                                                                                                                                                                   | 24℃, 48% RH                     |                 | 测试时间            | 2026-3-12 |
| Test Environment            |                                                                                                                                                                                                                                   |                                 |                 | Test Date       |           |
| 检测项目(Test item)             |                                                                                                                                                                                                                                   | 指标(Standard)                    | 检验结果(Test data) | 判定 (Decision)   |           |
| 平均厚度 μm                     |                                                                                                                                                                                                                                   | 28.0                            | 27.9            | 合格 Pass         |           |
| Average thickness           |                                                                                                                                                                                                                                   |                                 |                 |                 |           |
| 极限厚度偏差 % (max/min)          |                                                                                                                                                                                                                                   | ±10.0                           | 3.82/-4.59      | 合格 Pass         |           |
| Thickness tolerance         |                                                                                                                                                                                                                                   |                                 |                 |                 |           |
| 平均厚度偏差 %                    |                                                                                                                                                                                                                                   | ±6.0                            | -3.7            | 合格 Pass         |           |
| Average thickness variation |                                                                                                                                                                                                                                   |                                 |                 |                 |           |
| 拉伸强度MPa                     | MD                                                                                                                                                                                                                                | ≥75                             | 121.0           | 合格 Pass         |           |
| Tensile strength            | TD                                                                                                                                                                                                                                | ≥160                            | 224.0           |                 |           |
| 断裂伸长率%                      | MD                                                                                                                                                                                                                                | ≤200                            | 172.0           | 合格 Pass         |           |
| Elongation at break         | TD                                                                                                                                                                                                                                | ≤75                             | 65.0            |                 |           |
| 热收缩率 %                      | MD                                                                                                                                                                                                                                | ≤4.0                            | 2.8             | 合格 Pass         |           |
| Shrinkage                   | TD                                                                                                                                                                                                                                | ≤2.0                            | 0.4             |                 |           |
| 雾度 %                        |                                                                                                                                                                                                                                   | ≥70                             | 95.7            | 合格 Pass         |           |
| Haze                        |                                                                                                                                                                                                                                   |                                 |                 |                 |           |
| 光泽度%                        |                                                                                                                                                                                                                                   | 0.5-2.0                         | 1.1             | 合格 Pass         |           |
| Gloss                       |                                                                                                                                                                                                                                   |                                 |                 |                 |           |
| 摩擦系数                        |                                                                                                                                                                                                                                   | ≤0.7                            | 0.6             | 合格 Pass         |           |
| Friction coefficient        |                                                                                                                                                                                                                                   |                                 |                 |                 |           |
| 润湿张力 mN/m                   | 内 Inner                                                                                                                                                                                                                           | ≥36                             | 31/37           | 合格 Pass         |           |
| Surface tension             | 外 Outer                                                                                                                                                                                                                           | ≥38                             |                 |                 |           |
| 检验结论                        | 检验合格 Pass                                                                                                                                                                                                                         |                                 |                 |                 |           |
| Test conclusion             |                                                                                                                                                                                                                                   |                                 |                 |                 |           |
| 备注                          | 数据为实测数据，不同批号间或有差异<br>All data are actual measured values, and there may be variations between different batches.                                                                                                                  |                                 |                 |                 |           |
| Note                        |                                                                                                                                                                                                                                   |                                 |                 |                 |           |
| 特点                          | 特殊触感涂层，磨砂细腻肤感，高雾度低光泽，适配烫金 / UV / 印刷 / 复合工艺，附着性好，无溶剂无异味                                                                                                                                                                            |                                 |                 |                 |           |
| Features                    | Features a special tactile coating with a fine matte finish, high haze and low gloss. It is compatible with hot stamping, UV coating, printing, and lamination processes, offering excellent adhesion. Solvent-free and odorless. |                                 |                 |                 |           |
| 适用场景                        | 烟酒礼盒、化妆品 / 护肤品盒、礼品盒、精装书封面等高端印刷包装                                                                                                                                                                                                  |                                 |                 |                 |           |
| Application                 | High-end printed packaging such as tobacco & alcohol gift boxes, cosmetic / skincare product boxes, gift boxes, and hardcover book covers                                                                                         |                                 |                 |                 |           |

