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TECHNICAL DATA SHEET · 技术参数表

食品级 PE 保鲜膜

Food-Grade PE Cling Film

食品接触用聚乙烯（PE）保鲜膜 · 中英双语技术参数表 | Food-contact polyethylene (PE) cling film · Bilingual technical data sheet

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产品编码 Product code	**APIG-354**
规格依据 Specification basis	**客户产品规格与公差要求 Customer product attributes & tolerances**
检测依据 Test evidence	**检测报告 No. 0699240002（浙江省食品药品检验研究院 Zhejiang Institute for Food and Drug Control）**

1 产品概述与用途 / Product Overview & Applications

本品为食品接触用聚乙烯（PE）保鲜膜，宽度 300 mm、单卷长度 100 m、厚度 9 μm，卷绕于纸芯上，配套带切割刀与易撕条的纸盒，撕取方便、切口整齐。可直接覆盖或包裹容器与食品表面，用于生鲜、熟食、果蔬、烘焙食品及冷冻食品的包装、分装与保鲜，适用于家庭、商超、餐饮、食品加工与冷链配送等场景。

This product is a food-contact polyethylene (PE) cling film, 300 mm wide, 100 m per roll and 9 μm thick, wound on a cardboard core and supplied in a cardboard box with a cutter edge and easy tear strip for clean, convenient dispensing. It can be applied over or wrapped around containers and food surfaces for wrapping, portioning and freshness preservation of fresh produce, cooked food, fruit and vegetables, bakery items and frozen food, for household, retail, catering, food-processing and cold-chain delivery use.

- 食品接触级 PE 材质，可直接接触食品
  Food-contact grade PE material, suitable for direct food contact
- 膜面平整、透明，无可见杂质、孔洞与破损
  Smooth and transparent film, free from visible contamination, holes and damage
- 具有自粘性，能紧密贴合碗、盘与容器表面
  Self-clinging, adhering closely to bowls, plates and container surfaces

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- 耐低温性能好，适用于冷藏与冷冻储存
  Good low-temperature performance, suitable for chilled and frozen storage
- 配套带切割刀与易撕条纸盒，取用便捷、切口齐整
  Box with cutter edge and easy tear strip for convenient dispensing and a clean cut

2 材料与结构 / Material & Construction

项目 Item	说明 Description
材质 Material	食品级聚乙烯（PE） Food-grade polyethylene (PE)
结构 Construction	聚乙烯（PE）薄膜，膜面平整、无可见杂质与破损 Polyethylene (PE) film with a smooth surface, free from visible contamination and damage
卷芯 Core	纸芯 350 mm（长度）× 35 mm（直径） Cardboard tube 350 mm (length) × 35 mm (dia.)
表面特性 Surface	透明、柔软，具有自粘性 Transparent, flexible and self-clinging
增塑剂 Plasticizer	聚乙烯材质无需添加增塑剂 No plasticizer is required for polyethylene film
颜色 Colour	透明（其他颜色可按需定制，需确认） Transparent (other colours on request, subject to confirmation)

3 规格参数 / Specifications

下表区分“客户指定规格”与“可选供货范围”，两者分别执行、不叠加。

The table below distinguishes the customer-specified specification from the available supply range; the two are applied separately and are not cumulative.

项目 Item	客户规格 Customer spec	公差 Tolerance	可选范围 Available range	备注 Remark
宽度 Width	300 mm	±3%	200–600 mm（可定制分切） 200–600 mm, slitting on request	以客户规格优先 Customer spec takes precedence

%目 Item	客户规格 Customer spec	公差 Tolerance	可选范围 Available range	备注 Remark
长度（单卷）Length per roll	100 m	±3%（待确认，见附注） ±3% (to be confirmed, see Notes)	30 / 60 / 100 / 122 / 150 m，最长 300 m 30 / 60 / 100 / 122 / 150 m, up to 300 m	单位以确认稿为准 Unit to be confirmed
厚度 Thickness	9 µm	±15%	8–15 µm（常规可选范围） 8–15 µm (standard range)	客户规格与可选范围分别执行 Customer spec and available range are separate
卷芯（纸管）Core (cardboard tube)	350 mm × 35 mm 直径 350 mm × 35 mm dia.	按客户规格 Per customer spec	其他长度与内径可按需确认 Other lengths and inner diameters on request	
侧折边 Overall gusset (if applicable)	如适用（需确认） If applicable (to be confirmed)	±3%	是否需侧折边请确认 Gusset requirement to be confirmed	
外观 Appearance	膜面平I 、透明，无可见杂质、孔洞与破损 Smooth, transparent film, free from visible contamination, holes and damage	—	—	以确认稿为准 To be confirmed
单卷净重 Net weight per roll	按订单确认，可按要求提供计算值与实测值 Confirmed per order; calculated and measured values available on request	—	—	不含纸芯与纸盒重量 Excluding core and box

参考净重估算 Reference net-weight estimation：净重(kg) ≈ 宽度(m) × 长度(m) × 厚度(µm) × 0.92 ÷ 1000，其中 0.92 g/cm³ 为 PE 参考密度；实测值以订单确认为准。

Reference net weight (kg) ≈ width (m) × length (m) × thickness (µm) × 0.92 ÷ 1000, where 0.92 g/cm³ is the reference density of PE; actual values are confirmed per order.

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4 物理力学性能 / Mechanical Properties

性能保证值以订单确认时的技术附件为准。
Guaranteed values are agreed in the technical annex to the order confirmation.

序号 No.	性能项目 Property	客户要求 Customer requirement	数值 / 状态 Value / status
1	耐穿刺 Puncture resistance	项目已列，指标未给出 Item listed, no limit stated	按客户规格定制 · 待确认 To customer specification · to be confirmed
2	拉伸强度（纵向）Tensile (MD)	项目已列，指标未给出 Item listed, no limit stated	按客户规格定制 · 待确认 To customer specification · to be confirmed
3	拉伸强度（横向）Tensile (CD)	项目已列，指标未给出 Item listed, no limit stated	按客户规格定制 · 待确认 To customer specification · to be confirmed
4	封合部位拉伸强度 Tensile (seals)	项目已列，指标未给出 Item listed, no limit stated	按客户规格定制 · 待确认 To customer specification · to be confirmed
5	抗撕裂（横向）Tear resistance (CD)	项目已列，指标未给出 Item listed, no limit stated	按客户规格定制 · 待确认 To customer specification · to be confirmed
6	封合部位抗撕裂 Tear resistance (seals)	项目已列，指标未给出 Item listed, no limit stated	按客户规格定制 · 待确认 To customer specification · to be confirmed
7	伸长率（纵向）Stretch (MD)	项目已列，指标未给出 Item listed, no limit stated	按客户规格定制 · 待确认 To customer specification · to be confirmed
8	伸长率（横向）Stretch (CD)	项目已列，指标未给出 Item listed, no limit stated	按客户规格定制 · 待确认 To customer specification · to be confirmed
9	抗冲击（膜体）Dart impact (body)	项目已列，指标未给出 Item listed, no limit stated	按客户规格定制 · 待确认 To customer specification · to be confirmed

序号 No.	性能项目 Property	客户要求 Customer requirement	数值 / 状态 Value / status
10	抗冲击（封合部位）Dart impact (seals)	项目已列，指标未给出 Item listed, no limit stated	按客户规格定制 · 待确认 To customer specification · to be confirmed

封合强度与剥离力的实测值见第 6 节检测报告：热合强度 19 N（要求 ≥7），剥离力纵向 1.7 N、横向 1.6 N（要求 ≥1.0）。

Measured seal-strength and peel values are given in the test report in Section 6: heat-seal strength 19 N (requirement ≥7); peel force 1.7 N MD and 1.6 N CD (requirement ≥1.0).

5 阻隔性能 / Barrier Properties

性能 Property	单位 Unit	技术要求 Requirement	实测值 Measured	判定 Result
水蒸气透过量 WVTR Water vapour transmission rate	g/(m² · 24h · 0.1mm)	≤5.8	3.1	合格 Pass
氧气透过量 OTR Oxygen transmission rate	cm³/(m² · 24h · 0.1MPa)	≤1800	681	合格 Pass（23 °C） Pass (23 °C)

数据引自检测报告 No. 0699240002，氧气透过量测试条件为 23 °C。阻湿与阻氧性能有助于减缓食品水分流失与氧化，延长冷藏、冷冻条件下的保鲜时间。

the oxygen transmission rate was measured at 23 °C. Moisture- and oxygen-barrier performance helps slow moisture loss and oxidation, extending freshness under chilled and frozen conditions.

6 食品接触安全与迁移测试 / Food-Contact Safety & Migration Testing

检测报告编号 Test report no.	**0699240002（共 2 页，第 2 页 / 2 pages, page 2）**
检测机构 Testing institute	**浙江省食品药品检验研究院 / Zhejiang Institute for Food and Drug Control**
检验项目 Test items	**10 项（剥离力、热合强度、水蒸气透过量、氧气透过量、感官、甲苯二胺、蒸发残渣、高锰酸钾消耗量、重金属、溶剂残留量）** 10 items (peel force, heat-seal strength, WVTR, OTR, sensory, toluenediamine, evaporation residue, potassium permanganate consumption, heavy metals, solvent residue)

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总体结论 Overall conclusion **全部检验项目合格**
All test items conform

序号 No.	检验项目 Test item	技术要求 Requirement	检验结果 Result	单项结论 Verdict	备注 Remark
1	剥离力（N）Peel force — 纵向 MD	≥1.0	1.7	合格 Pass	/
1	剥离力（N）Peel force — 横向 CD	≥1.0	1.6	合格 Pass	/
2	热合强度（N）Heat-seal strength	≥7	19	合格 Pass	/
3	水蒸气透过量 WVTR $g/(m^2 \cdot 24h \cdot 0.1mm)$	≤5.8	3.1	合格 Pass	/
4	氧气透过量 OTR $cm^3/(m^2 \cdot 24h \cdot 0.1MPa)$	≤1800	681	合格 Pass	23 °C
5	感官 Sensory	浸泡液不得有异味、异臭、混浊和脱色现象 No off-odour, off-taste, turbidity or discolouration in the soaking solution	符合 Conforms	合格 Pass	/
6	甲苯二胺（4% 乙酸）Toluenediamine (4% acetic acid) mg/L	≤0.004	<0.002	合格 Pass	/
7	蒸发残渣 Evaporation residue mg/L — 4% 乙酸 4% acetic acid	≤30	10.5	合格 Pass	/
7	蒸发残渣 Evaporation residue mg/L — 正己烷 n-Hexane	≤30	5.0	合格 Pass	/
7	蒸发残渣 Evaporation residue mg/L — 65% 乙醇 65% ethanol	≤30	17.0	合格 Pass	/

序号 No.	检验项目 Test item	技术要求 Requirement	检验结果 Result	单项结论 Verdict	备注 Remark
8	高锰酸钾消耗量（水）Potassium permanganate consumption (water) mg/L	≤10	2.7	合格 Pass	/
9	重金属（以 Pb 计）Heavy metals (as Pb) mg/L	≤1	<1	合格 Pass	/
10	溶剂残留量 Solvent residue mg/m² — 总量 Total	≤10	0.20	合格 Pass	/
10	溶剂残留量 Solvent residue mg/m² — 苯类溶剂 Benzene-type solvents	≤3.0	0.13	合格 Pass	/

检测结果见上表。
Test results are shown in the table above.

7 包装规格 / Packaging

项目 Item	规格 Specification	备注 Remark
单卷包装 Individual packing	每卷装入 1 个纸盒 1 roll per cardboard box	按客户规格 Per customer spec
纸盒结构 Box design	带切割刀与易撕条（易撕条覆盖刀片） Cardboard box with cutter edge and easy tear strip (the tear strip covers the cutter)	按客户规格 Per customer spec
条形码 Barcode	有 Yes	条码内容可按客户要求编制 Barcode content as required

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项目 Item	规格 Specification	备注 Remark
纸盒尺寸 Box dimensions	以最终确认稿为准 To be confirmed in the final agreed artwork	以最终确认稿为准 Subject to the final agreed artwork
外箱 Export carton	装量与箱规按订单确认，可按要求提供装箱数据 Carton quantity and dimensions confirmed per order; loading data available on request	
标志 Marking	可按客户要求印制产品名称、规格、批号、生产日期、原产地与警示语 Product name, size, batch no., production date, country of origin and safety warnings printed as required	

8 储存与运输 / Storage & Transportation

- 存放于阴凉、干燥、通风处，避免阳光直射、雨淋与高温环境。
  Store in a cool, dry and well-ventilated place away from direct sunlight, rain and heat.
- 避免与油类、酸碱、有机溶剂及有强烈气味的物品混放，防止污染与串味。
  Keep away from oils, acids, alkalis, organic solvents and strongly odorous goods to prevent contamination and odour transfer.
- 远离火源与热源；纸盒堆码高度适中，避免重压变形。
  Keep away from fire and heat sources; stack cartons to a moderate height to avoid deformation.
- 运输过程中避免剧烈碰撞、雨淋与曝晒，装卸时轻拿轻放。
  Protect from impact, rain and direct sun during transport; handle with care when loading and unloading.
- 建议储存条件：温度 5–35 °C，相对湿度不超过 80%。
  Recommended storage conditions: 5–35 °C, relative humidity below 80%.

9 使用与适用温度范围 / Usage & Recommended Temperature Range

使用场景 Application	建议温度 Recommended	说明 Note
冷藏 Chilled storage	0–4 °C	直接覆盖或包裹碗盘与食品，自粘贴合密封 Apply directly over bowls, plates and food; the film clings and seals
冷冻 Frozen storage	-18 °C 及以下（常规冷冻） -18 °C and below (standard frozen storage)	低温下膜体变硬，避免反复弯折与挤压 The film stiffens at low temperature; avoid repeated folding and compression
微波炉加热 Microwave reheating	低火（≤70 °C）或中火（≤90 °C），单次不超过 3 分钟 Low heat (≤70 °C) or medium heat (≤90 °C), no longer than 3 minutes at a time	需以包装标识的微波适用性为准；避免与高油脂食物直接接触 Subject to the microwave suitability marked on the packaging; avoid direct contact with high-fat foods
耐温上限 Upper service limit	约 100–110 °C Approx. 100–110 °C	超过上限膜体收缩变形；禁止明火、烤箱及高温油脂直接接触 Above this limit the film shrinks and deforms; open flame, ovens and direct contact with hot oil are not permitted
耐温下限 Lower service limit	参考约 -60 °C Reference, approx. -60 °C	参考通用 PE 保鲜膜使用条件整理 Compiled from generally published PE cling-film usage conditions

以上温度建议参考公开的通用 PE 保鲜膜使用条件整理，作为参考，不构成本产品的性能保证；实际使用请结合客户使用场景与包装标识。

The temperature guidance above is compiled from publicly available general PE cling-film usage conditions and is provided for reference only; it does not constitute a performance warranty for this product. Actual use should take into account the customer's specific application and the packaging label.

10 可定制选项 / Customisation Options

- 宽度：200–600 mm，可按要求分切。
  Width: 200–600 mm, slit to order.
- 长度：30 m 至 300 m。
  Length: 30 m up to 300 m.
- 厚度：8–15 μm。
  Thickness: 8–15 μm.

- 纸盒印刷、私标（private label）及带切割刀纸盒。
  Custom-printed boxes, private label and cutter-edge boxes.
- 侧折边（gusset）、易撕条与条形码可按要求设计。
  Gusset, easy tear strip and barcode can be designed as required.
- 定制规格的起订量按规格协商确认。
  Minimum order quantities for customised specifications are agreed per size.
- 定制尺寸与印刷内容以双方确认的技术确认单为准。
  Custom sizes and print content are subject to a mutually confirmed specification sheet.

11 合规与可提供文件 / Compliance & Available Documentation

本产品符合食品接触材料相关检测要求。
This product conforms to the relevant food-contact material test requirements.

可提供文件 Document	状态 Status	说明 Note
检测报告 No. 0699240002（食品接触材料检测） Test Report No. 0699240002 (food-contact material testing)	已具备 Available	对应客户规格 Standards 条目的检验数据 Test data corresponding to the Standards item of the customer specification
本技术参数表（中英双语） This technical data sheet (bilingual)	已具备 Available	产品规格与检测数据汇总 Summary of product specifications and test data
批次检验报告 / 出厂检验报告 Batch / factory inspection report	可按订单提供 Available per order	在合同中约定 To be agreed in the contract
FDA 21 CFR、EU 10/2011、LFGB、REACH 等符合性声明 Declarations of conformity (e.g. FDA 21 CFR, EU 10/2011, LFGB, REACH)	可按客户要求另行申请，需确认 Available on request, subject to confirmation	尚未取得；出具前需与客户确认项目范围与周期 Not yet obtained; scope and lead time to be confirmed with the customer before issue
第三方迁移试验报告（SGS 或同等机构） Third-party migration test report (SGS or equivalent)	可按客户要求另行申请，需确认 Available on request, subject to confirmation	尚未取得 Not yet obtained

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可提供文件 Document	状态 Status	说明 Note
制造过程与化学品使用符合现行欧洲法规的合规证据 Evidence of compliance of the manufacturing process and chemical use with current European legislation	待客户明确具体要求后确认 To be confirmed once specific requirements are defined	对应客户规格 Environmental 条目 Corresponds to the Environmental item of the customer specification

12 附注 / Notes

•纸盒尺寸以双方确认的技术确认单为准。
Box dimensions are subject to the mutually confirmed specification sheet.

•长度公差按双方确认的单位执行。
Length tolerance is applied in the unit agreed by both parties.

•外观按卷装外观与 100 m 卷长执行。
Appearance follows the rolled finish of a 100 m roll.

•力学性能保证值以合同技术附件为准。
Guaranteed mechanical values are set in the contract technical annex.

- 厚度口径：9 µm ±15% 为客户特定规格，8–15 µm 为可选供货范围，两者分别执行、不叠加。
  Thickness basis: 9 µm ±15% is the customer-specific specification while 8–15 µm is the available supply range; the two are applied separately and are not cumulative.
- 薄膜层数与树脂牌号以最终技术协议确认为准。
  Film layer structure and resin grade to be confirmed in the final technical agreement.
- 本表数值以所列备注条件为准；如客户规格与本表不一致，以双方确认的技术确认单为准。
  Values in this sheet are subject to the conditions stated in the remarks; where the customer specification differs from this sheet, the mutually confirmed specification sheet prevails.

如需更多资料，请联系 sales@boppfilmsales.com。