



# 内膜 Inner Membrane

选项 A | Option A - 1200 g/m<sup>2</sup>

修订日期 Revised 2026-10-18 资料编号 Reference IM-A

依据膜材技术资料整理。MOTET 已确认此选项用于内膜；编号为本摘要的检索编号，并非新的膜材型号。

Compiled from the material technical datasheet. MOTET identifies this option for inner-membrane use. The reference is a summary identifier, not a material model.

| 项目 Property                                | 资料值 Reference value                                                            | 方法或标准 Method or standard           |
|--------------------------------------------|--------------------------------------------------------------------------------|------------------------------------|
| 基布 / Base fabric                           | 100% 聚酯 / Polyester                                                            | 材料技术资料 / Material datasheet        |
| 涂层与表面 / Coating & finish                   | PVC; 高光丙烯酸表处<br>PVC; high-gloss acrylic finish                                 | 材料技术资料 / Material datasheet        |
| 面密度 / Mass per unit area                   | 1200 g/m <sup>2</sup> ±5%                                                      | DIN EN ISO 2286-2                  |
| 拉伸强力 (经/纬)<br>Tensile strength (warp/weft) | ≥5800 / ≥5400 N/5 cm                                                           | DIN EN ISO 1421-1 <sup>1</sup>     |
| 撕裂强力 (经/纬)<br>Tear resistance (warp/weft)  | ≥900 / ≥800 N                                                                  | DIN 53363                          |
| 涂层附着 / Coating adhesion                    | ≥110 N/5 cm                                                                    | DIN EN ISO 2411<br>高频法 / HF method |
| 耐冷 / Cold resistance                       | -30 °C                                                                         | DIN EN 1876-1                      |
| 耐热 / Heat resistance                       | +70 °C                                                                         | 资料中的内部方法 / Internal source method  |
| 抗弯 / Flex resistance                       | ≥100,000 次 / bends                                                             | DIN 53359 A                        |
| 甲烷透过指标<br>Methane permeability             | <500 cm <sup>3</sup> /(m <sup>2</sup> ·d·bar)<br>温度未列 / Temperature not stated | DIN 53380 Part 2                   |
| 燃烧性能参考等级<br>Fire classification reference  | DIN 4102 B1                                                                    | DIN 4102 B1                        |

未提供厚度，不推定公称厚度。初步技术数据用于选型；燃烧等级按资料标示，适用试样、条件与供货批次需在项目中核对。

Thickness is not stated and is not inferred. Preliminary technical data support selection; verify the applicable specimen, conditions and supply batch for the referenced fire classification.

资料依据：膜材技术数据表，版本 2023-02-08；资料编号 IM-A。<sup>1</sup>方法编号按资料保留。

Basis: material technical datasheet, dated 2023-02-08; summary reference IM-A.<sup>1</sup> Method designations are retained.

本文件为 MOTET 膜材选型技术摘要，不是检测报告或认证证书。实际采用值以批准的材料规格及项目批次资料为准。

This MOTET material-selection summary is not a test report or certificate. Approved material specifications and project batch documents govern.



# 内膜 Inner Membrane

选项 B | Option B - 1200 g/m<sup>2</sup>

修订日期 Revised 2026-10-18 资料编号 Reference IM-B

依据膜材技术资料整理；MOTET 已确认用于内膜。保留资料原有数值、公差及测试温度，不据此推导整柜泄漏量。

Compiled from the material technical datasheet for MOTET inner-membrane use. Values, tolerances and test temperature are retained; they do not define whole-holder leakage.

| 项目 Property                                | 资料值 Reference value                                  | 方法或标准 Method or standard           |
|--------------------------------------------|------------------------------------------------------|------------------------------------|
| 基布 / Base fabric                           | 100% 聚酯 / Polyester                                  | 材料技术资料 / Material datasheet        |
| 涂层与表面 / Coating & finish                   | PVC; 无漆、哑光压纹<br>PVC; unlacquered, matt embossed      | 材料技术资料 / Material datasheet        |
| 面密度 / Mass per unit area                   | 1200 g/m <sup>2</sup> (-5% / +10%)                   | DIN EN ISO 2286-2                  |
| 公称厚度 / Nominal thickness                   | 1.0 mm                                               | DIN EN ISO 2286-3                  |
| 拉伸强力 (经/纬)<br>Tensile strength (warp/weft) | ≥4400 / ≥4200 N/5 cm                                 | DIN EN ISO 1421-1 <sup>1</sup>     |
| 撕裂强力 (经/纬)<br>Tear resistance (warp/weft)  | ≥550 / ≥500 N                                        | DIN 53363                          |
| 涂层附着 / Coating adhesion                    | ≥100 N/5 cm                                          | DIN EN ISO 2411<br>高频法 / HF method |
| 耐冷 / Cold resistance                       | -30 °C                                               | DIN EN 1876-1                      |
| 耐热 / Heat resistance                       | +70 °C                                               | 资料中的内部方法 / Internal source method  |
| 抗弯 / Flex resistance                       | ≥100,000 次 / bends                                   | DIN 53359 A                        |
| 甲烷透过指标<br>Methane permeability             | <131 cm <sup>3</sup> /(m <sup>2</sup> ·d·bar), 23 °C | DIN 53380 Part 2                   |

本资料没有列出阻燃等级，不增补 B1。甲烷透过值为膜材试验指标，不等于成品气柜的气密性验收结论。

No fire classification is stated in the source. Material permeability is not an acceptance result for the completed gas holder.

资料依据：膜材技术数据表，版本 2021-04-08；资料编号 IM-B。<sup>1</sup>方法编号按资料保留。

Basis: material technical datasheet, dated 2021-04-08; summary reference IM-B.<sup>1</sup> Method designations are retained.

本文件为 MOTET 膜材选型技术摘要，不是检测报告或认证证书。实际采用值以批准的材料规格及项目批次资料为准。

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# 内膜 Inner Membrane

选项 C | Option C - 约 / approx. 1500 g/m<sup>2</sup>

修订日期 Revised 2026-10-18 资料编号 Reference IM-C

依据膜材技术资料整理；MOTET 已确认用于内膜。来源注明为实验室平均参考数据，不作保证或依据；以下数值不改写为保证下限。

Compiled for MOTET inner-membrane use. The datasheet states that these are laboratory-average reference values, not guarantees; values below are not converted into guaranteed minima.

| 项目 Property                                    | 资料值 Reference value                                                            | 方法或标准 Method or standard                      |
|------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------|
| 基布 / Base fabric                               | 100% 聚酯 / Polyester                                                            | DIN ISO 2076                                  |
| 涂层与表面 / Coating & finish                       | PVC；双面丙烯酸表处<br>PVC; acrylic finish on both sides                               | 材料技术资料 / Material datasheet                   |
| 面密度 / Mass per unit area                       | 约 / approx. 1500 g/m <sup>2</sup>                                              | DIN EN ISO 2286-2                             |
| 拉伸强力（经/纬）<br>Tensile strength (warp/weft)      | 8000 / 7500 N/5 cm                                                             | DIN EN ISO 1421-1 <sup>1</sup>                |
| 撕裂强力（经/纬）<br>Tear resistance (warp/weft)       | 1200 / 1100 N                                                                  | DIN 53363                                     |
| Welding adhesion <sup>2</sup><br>原文：高频焊接强度     | 150 N/5 cm                                                                     | IVK 3.13<br>试样条件待核 / Conditions pending       |
| 耐温（原表标注）<br>Temperature resistance (as stated) | -30 °C 至 / to +70 °C                                                           | DIN EN 1876-1<br>热端方法待核 / Heat method pending |
| 抗弯 / Flex resistance                           | ≥100,000 次 / bends                                                             | DIN 53359 A                                   |
| 燃烧性能参考等级<br>Fire classification reference      | GB 8624 B1                                                                     | GB 8624<br>版本未列 Edition not stated            |
| 甲烷透过指标<br>Methane permeability                 | ≤200 cm <sup>3</sup> /(m <sup>2</sup> ·d·bar)<br>温度未列 / Temperature not stated | DIN 53380 Part 2                              |

未列厚度；不能把另一份试样的实测克重、甲烷透过结果或 DIN B1 初判，写成本选项所有批次的性能保证。<sup>2</sup>来源术语照录，不能据此认证 MOTET 成品焊缝。

Thickness is not stated. Separate sample results and a DIN B1 preliminary assessment are not batch-wide guarantees.<sup>2</sup> The source term does not certify MOTET fabrication seams.

资料依据：膜材技术数据表，版本 2023-07-06；资料编号 IM-C。<sup>1</sup>方法编号按资料保留。

Basis: material technical datasheet, dated 2023-07-06; summary reference IM-C.<sup>1</sup> Method designations are retained.

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# 外膜 Outer Membrane

耐候防护选项 | Weather-protection option - 1400 g/m<sup>2</sup>

修订日期 Revised 2026-10-18 资料编号 Reference OM-A

依据膜材技术资料整理，用于外膜选型讨论。PVDF 为正面表处，PVC 为涂层，不能称作整张膜由 PVDF 制成。  
Compiled from the selected supplier's datasheet for outer-membrane selection. PVDF is the front finish; PVC is the coating. The membrane is not described as entirely PVDF.

| 项目 Property                                    | 资料值 Reference value                                   | 方法或标准 Method or standard                            |
|------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------|
| 基布 / Base fabric                               | 100% 聚酯 / Polyester                                   | DIN ISO 2076                                        |
| 涂层 / Coating                                   | PVC                                                   | 材料技术资料 / Material datasheet                         |
| 表面处理 / Surface finish                          | 正面可焊接 PVDF；背面丙烯酸<br>Weldable PVDF front; acrylic back | 材料技术资料 / Material datasheet                         |
| 面密度 / Mass per unit area                       | 1400 g/m <sup>2</sup>                                 | DIN EN ISO 2286-2                                   |
| 拉伸强力（经/纬）<br>Tensile strength (warp/weft)      | 8000 / 7500 N/5 cm                                    | DIN EN ISO 1421-1 <sup>1</sup>                      |
| 撕裂强力（经/纬）<br>Tear resistance (warp/weft)       | 1300 / 1300 N                                         | DIN 53363                                           |
| Welding adhesion <sup>2</sup><br>原文：高频焊接强度     | 150 N/5 cm                                            | DIN EN ISO 2411<br>原术语待核 / Term needs clarification |
| 耐温（原表标注）<br>Temperature resistance (as stated) | -30 °C 至 / to +70 °C                                  | DIN EN 1876-1<br>热端方法待核 / Heat method pending       |
| 抗弯 / Flex resistance                           | ≥100,000 次 / bends                                    | DIN 53359 A                                         |
| 燃烧性能参考等级<br>Fire classification reference      | DIN 4102-1 B1                                         | DIN 4102-1 B1                                       |

来源为实验室平均参考数据，不作保证；没有给出厚度、甲烷透过指标或耐候年限，不补写。<sup>2</sup> ISO 2411 的范围为涂层附着试验，不能把该项直接称为成品焊缝认证。

The source gives laboratory-average reference data, not guarantees. Thickness, methane permeability and service life are not stated.<sup>2</sup> ISO 2411 concerns coating adhesion, not certification of finished seams.

资料依据：膜材技术数据表，版本 2023-06-15；资料编号 OM-A。<sup>1</sup>方法编号按资料保留。  
Basis: material technical datasheet, dated 2023-06-15; summary reference OM-A.<sup>1</sup> Method designations are retained.

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