# WEIFANG MINGZE WATERPROOF MATERIAL CO., LTD.

## 潍坊市明泽防水材料有限公司

## TECHNICAL DATA SHEET (TDS) / 技术数据表

Document Ref / 文件编号: MZ-TDS-PVC-H-1.2MM-202610 | Date / 日期: October 21, 2026 / 2026 年 10 月 21 日

Standard / 执行标准: GB 12952-2011

### 1. Product Identification & Overview / 产品概况

| | |
|---|---|
| Product Name / 产品名称 | Polyvinyl chloride (PVC) waterproofing membrane / 聚氯乙烯（PVC）防水卷材 |
| Model / Specification / 型号规格 | PVC H 1.20 (H = homogeneous / 均质型) |
| Classification / 产品分类 | Homogeneous membrane, type H / 均质卷材（H 类） |
| Execution Standard / 执行标准 | GB 12952-2011《聚氯乙烯（PVC）防水卷材》 |
| Brand / 商标 | Mingze / 明泽 |
| Test Report No. / 检验报告编号 | J050029-2025 |
| Report Date (fill-in) / 报告填写日期 | 2025-05-19 (5 pages / 共 5 页) |
| Manufacturer / 生产单位 | Weifang Mingze Waterproof Material Co., Ltd. / 潍坊市明泽防水材料有限公司 |
| Plant Address / 厂址 | Caoxinzhuang Village, Yangkou Town, Shouguang City, Weifang, Shandong, China / 山东省寿光市羊口镇曹辛庄村 |

### 2. Physical Dimensions & Supply / 规格尺寸与供货

| Item / 项目 | Value / 内容 | Note (Report No. J050029-2025 / 检验报告) / 备注 |
|---|---|---|
| Nominal Thickness / 公称厚度 | 1.20 mm | Tested min. single value 1.19 / 1.20 / 1.19 mm (req. min. single 1.05 mm); thickness deviation 0 / 2 / 0 % (req. -5 ~ +10 %) / 实测最小单值 1.19 / 1.20 / 1.19 mm（要求最小单值 1.05 mm）；厚度偏差 0 / 2 / 0 %（要求 -5 ~ +10 %） |
| Structure / 结构 | Homogeneous single-ply membrane; no reinforcement or backing / 均质单层卷材，无增强层、无背衬 | PVC membrane, type H / PVC 卷材 H 类 |
| Roll Size / 卷材规格 | Width 1.0 m or 2.0 m; 20 m per roll / 宽 1.0 m 或 2.0 m；20 m/卷 | Standard supply options; per order confirmation / 标准供货规格，以订单确认为准 |
| Colour / 颜色 | White standard; other colours on request / 标准白色，可定制其他颜色 | Custom colour per order / 定制颜色按订单约定 |

## 3. Technical Performance & Test Results / 技术性能与检验结果 (Report No. J050029-2025 / 检验报告 J050029-2025, GB 12952-2011)

| Test Property / 检验项目 | Standard Req. / 标准规定 | Actual Test Result / 检验结果 | Verdict / 单项评定 |
|---|---|---|---|
| 1 Dimensions deviation / 尺寸偏差<br>Length / 长度 (%) | Not less than 99.5% of nominal / 不小于规定值的 99.5 | 100.1, 100.2, 100.1 | Pass / 合格 |
| Width / 宽度 (%) | Not less than 99.5% of nominal / 不小于规定值的 99.5 | 100.1, 100.1, 100.1 | Pass / 合格 |
| Thickness deviation / 厚度偏差 (%) | -5 ~ +10 | 0, 2, 0 | Pass / 合格 |
| Thickness, min. single value / 厚度最小值 (mm) | Min. single value 1.05 / 最小单值 1.05 | 1.19, 1.20, 1.19 | Pass / 合格 |
| 2 Appearance / 外观<br>Joints / 接头 | Not more than one joint per roll; shorter segment not less than 1.5 m; cut neatly and lengthened by 150 mm / 卷材的接头不应多于一处，较短的一段长度不应小于 1.5 m，接头应剪切整齐，并应加长 150 mm | No joints / 无接头 | Pass / 合格 |
| Sheet surface / 卷材表面 | Even surface, neat edges; no cracks, holes, adhesion, blisters or scars / 卷材表面应平整、边缘整齐，无裂纹、孔洞、黏结、气泡和疤痕 | Even surface, neat edges; no cracks, holes, adhesion, blisters or scars / 卷材表面平整、边缘整齐，无裂纹、孔洞、粘结、气泡和疤痕 | Pass / 合格 |
| 3 Tensile properties / 拉伸性能<br>Tensile strength, longitudinal / 拉伸强度（纵向）(MPa) | ≥ 10 | 11 | Pass / 合格 |
| Tensile strength, transverse / 拉伸强度（横向）(MPa) | ≥ 10 | 18 | Pass / 合格 |
| Elongation at break, longitudinal / 断裂延伸率（纵向）(%) | ≥ 200 | 216 | Pass / 合格 |
| Elongation at break, transverse / 断裂延伸率（横向）(%) | ≥ 200 | 227 | Pass / 合格 |
| 4 Dimensional change after heat treatment / 热处理尺寸变化率 (%)<br>Longitudinal / 纵向 | ≤ 2.0 | 1.3 | Pass / 合格 |
| Transverse / 横向 | ≤ 2.0 | 0 | Pass / 合格 |
| 5 Low temperature flexibility / 低温弯折性 | -25 °C, no cracks / -25 °C 无裂纹 | No cracks / 无裂纹 | Pass / 合格 |

| Test Property / 检验项目 | Standard Req. / 标准规定 | Actual Test Result / 检验结果 | Verdict / 单项评定 |
|---|---|---|---|
| 6 Watertightness / 不透水性 | 0.3 MPa, 2 h, impermeable / 0.3 MPa，2 h 不透水 | Impermeable / 不透水 | Pass / 合格 |
| 7 Impact resistance / 抗冲击性能 | 0.5 kg·m, no water penetration / 0.5 kg·m，不渗水 | No water penetration / 不渗水 | Pass / 合格 |
| 8 Joint peel strength / 接缝剥离强度 (N/mm) | ≥ 4.0 or membrane failure / ≥ 4.0 或卷材破坏 | 4.6 | Pass / 合格 |
| 9 Right-angle tear strength / 直角撕裂强度 (N/mm) Longitudinal / 纵向 | ≥ 50 | 64 | Pass / 合格 |
| Transverse / 横向 | ≥ 50 | 85 | Pass / 合格 |
| 10 Water absorption (70 °C, 168 h) / 吸水率 (%) After immersion / 浸水后 | ≤ 4.0 | 3.8 | Pass / 合格 |
| After airing / 晾置后 | ≥ -0.40 | 2.31 | Pass / 合格 |
| 11 Chemical resistance / 耐化学性 Salt treatment — appearance / 盐处理—外观 | No blisters, cracks, delamination, adhesion or pinholes / 无起泡、裂纹、分层、粘结和孔洞 | No blisters, cracks, delamination, adhesion or pinholes / 无起泡、裂纹、分层、粘结和孔洞 | Pass / 合格 |
| Salt — tensile strength retention, long. / 盐处理—拉伸强度保持率（纵向）(%) | ≥ 85 | 107 | Pass / 合格 |
| Salt — tensile strength retention, trans. / 盐处理—拉伸强度保持率（横向）(%) | ≥ 85 | 97 | Pass / 合格 |
| Salt — elongation retention, long. / 盐处理—断裂伸长率保持率（纵向）(%) | ≥ 80 | 91 | Pass / 合格 |
| Salt — elongation retention, trans. / 盐处理—断裂伸长率保持率（横向）(%) | ≥ 80 | 101 | Pass / 合格 |
| Salt — low temperature flexibility / 盐处理—低温弯折性 | -20 °C, no cracks / -20 °C 无裂纹 | No cracks / 无裂纹 | Pass / 合格 |
| Alkali treatment — appearance / 碱处理—外观 | No blisters, cracks, delamination, adhesion or pinholes / 无起泡、裂纹、分层、粘结和孔洞 | No blisters, cracks, delamination, adhesion or pinholes / 无起泡、裂纹、分层、粘结和孔洞 | Pass / 合格 |
| Alkali — tensile strength retention, long. / 碱处理—拉伸强度保持率（纵向）(%) | ≥ 85 | 105 | Pass / 合格 |

| Test Property / 检验项目 | Standard Req. / 标准规定 | Actual Test Result / 检验结果 | Verdict / 单项评定 |
|---|---|---|---|
| Alkali — tensile strength retention, trans. / 碱处理—拉伸强度保持率（横向）(%) | ≥ 85 | 92 | Pass / 合格 |
| Alkali — elongation retention, long. / 碱处理—断裂伸长率保持率（纵向）(%) | ≥ 80 | 94 | Pass / 合格 |
| Alkali — elongation retention, trans. / 碱处理—断裂伸长率保持率（横向）(%) | ≥ 80 | 101 | Pass / 合格 |
| Alkali — low temperature flexibility / 碱处理—低温弯折性 | -20 °C, no cracks / -20 °C 无裂纹 | No cracks / 无裂纹 | Pass / 合格 |
| Acid treatment — appearance / 酸处理—外观 | No blisters, cracks, delamination, adhesion or pinholes / 无起泡、裂纹、分层、粘结和孔洞 | No blisters, cracks, delamination, adhesion or pinholes / 无起泡、裂纹、分层、粘结和孔洞 | Pass / 合格 |
| Acid — tensile strength retention, long. / 酸处理—拉伸强度保持率（纵向）(%) | ≥ 85 | 86 | Pass / 合格 |
| Acid — tensile strength retention, trans. / 酸处理—拉伸强度保持率（横向）(%) | ≥ 85 | 110 | Pass / 合格 |
| Acid — elongation retention, long. / 酸处理—断裂伸长率保持率（纵向）(%) | ≥ 80 | 109 | Pass / 合格 |
| Acid — elongation retention, trans. / 酸处理—断裂伸长率保持率（横向）(%) | ≥ 80 | 81 | Pass / 合格 |
| Acid — low temperature flexibility / 酸处理—低温弯折性 | -20 °C, no cracks / -20 °C 无裂纹 | No cracks / 无裂纹 | Pass / 合格 |
| 12 Heat aging (80 °C, 672 h) / 热老化<br>Appearance / 外观 | No blisters, cracks, delamination, adhesion or pinholes / 无起泡、裂纹、分层、粘结和孔洞 | No blisters, cracks, delamination, adhesion or pinholes / 无起泡、裂纹、分层、粘结和孔洞 | Pass / 合格 |
| Heat aging / 热老化<br>Tensile strength retention, long. / 拉伸强度保持率（纵向）(%) | ≥ 85 | 102 | Pass / 合格 |
| Heat aging / 热老化<br>Tensile strength retention, trans. / 拉伸强度保持率（横向）(%) | ≥ 85 | 101 | Pass / 合格 |

| Test Property / 检验项目 | Standard Req. / 标准规定 | Actual Test Result / 检验结果 | Verdict / 单项评定 |
|---|---|---|---|
| Heat aging / 热老化<br>Elongation retention, long. / 断裂伸长率保持率（纵向）(%) | ≥ 80 | 88 | Pass / 合格 |
| Heat aging / 热老化<br>Elongation retention, trans. / 断裂伸长率保持率（横向）(%) | ≥ 80 | 103 | Pass / 合格 |
| Heat aging / 热老化<br>Low temperature flexibility / 低温弯折性 | -20 °C, no cracks / -20 °C 无裂纹 | No cracks / 无裂纹 | Pass / 合格 |

All 12 test items listed in Report No. J050029-2025 are rated "Pass" (合格); the values above are those recorded in the report (punctuation and unit notation normalized). / 检验报告 J050029-2025 所列 12 个检验项目全部评定为“合格”；以上数值为报告所载数值（标点与单位写法已规范化）。

## 4. Installation, Storage & Quality Notes / 施工、储存与质检说明

| | |
|---|---|
| Installation Method / 施工方法 | Single-ply PVC membrane system; seams are hot-air welded. Substrate must be sound, dry and clean, free of oil, dust and loose material; prime as specified. Welding parameters, seam width and detailing follow the approved installation instructions and the project specification. / 单层 PVC 卷材系统，接缝热风焊接。基层应坚实、干燥、清洁，无油污、浮灰与松散物，按系统要求涂刷基层处理剂；焊接参数、搭接宽度与节点做法按经批准的施工说明和工程规范执行。 |
| Storage & Handling / 储存与搬运 | Store rolls upright in a dry, ventilated warehouse, protected from sunlight, rain, moisture and ignition sources; keep away from oils, solvents and sharp objects. / 立放储存于干燥、通风的仓库，避免日晒、雨淋、受潮与火源；远离油类、溶剂和尖锐物。 |
| Health & Safety / 安全说明 | Wear gloves and eye protection when handling and welding; ventilate the work area during hot-air welding. MSDS available on request. / 搬运与焊接时佩戴手套和护目镜；热风焊接时保持作业区通风。MSDS 可索取。 |
| Quality Inspection Note / 质检说明 | Report No. J050029-2025 (5 pages, dated 2025-05-19): every test item listed in the report is rated "Pass", and all items comply with GB 12952-2011. Factory test certificates accompany every delivery. / 检验报告 J050029-2025（共 5 页，2025-05-19）：报告所列检验项目全部评定为“合格”，符合 GB 12952-2011 要求；每批交货附出厂检验合格证。 |

## 5. Disclaimer / 免责声明

Values in this TDS are the test results recorded in Report No. J050029-2025; they are typical values, not per-batch guarantees. The order-confirmed specification prevails; storage, handling and installation must follow the installation instructions and the MSDS. / 本 TDS 数值为检验报告 J050029-2025 所载检验结果，属典型值，非逐批保证；以订单确认书约定的规格为准，储存、搬运与施工应遵循施工说明与 MSDS。

Authorized by Quality Assurance & Technical Department / 质量保证与技术部批准

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