# 山东亚泰新材料科技有限公司

## 涂膜物理性能测试报告
## COATING PHYSICAL PROPERTY REPORT

| | | | |
|---|---|---|---|
| 铝卷名称<br>Product | 彩涂铝卷<br>Color-coated aluminum rol | 测　试<br>Testing department | 质检部<br>Quality Inspection Department |
| 合金状态<br>Alloy-Temper | 3105H46 | 审　核<br>Examine department | 品管组<br>Quality Control Team |
| 铝卷规格<br>Dimensions | 0.36*137 | 测试日期<br>Test date | 2026.08.17 |
| 铝卷颜色<br>Color | 双涂砂面浅棕<br>Double-coated sand finish - light brown | 铝卷编号<br>Number | / |

| 序号<br>NO. | 项　目<br>Item | 技术要求<br>Technical requirement | 检验结果<br>Test result | 结论Conclusion | 备注<br>Remark |
|---|---|---|---|---|---|
| 1 | 色差值<br>Color difference | 参照标准板/上一批目测合格 | 0.36 | √ | 色差仪<br>Colorimeter |
| 2 | 涂膜厚度<br>Thickness | ≥28μm | 29μm | √ | 膜厚仪<br>Coating Thickness Detector |
| 3 | 光泽度<br>Glossy | 参照客户要求<br>Customer requirement | 合格 | √ | 光泽仪<br>Glossmeter |
| 4 | 涂膜硬度<br>Scratch test | ≥HB | 合格 | √ | 中华牌铅笔<br>Pencil |
| 5 | 柔韧性<br>T-Bend | ≤2T | 合格 | √ | 折弯机<br>Bending machine |
| 6 | 附着力<br>Adhesion | 划格法一级<br>Cross grid consistency | 0级 | √ | 百格刀<br>Cross-Cut |
| 7 | 埃里克森<br>Erickson experiment | 不脱漆<br>No paint peeling | 合格 | √ | 参考实验<br>Reference experiment |
| 8 | 背漆漆膜<br>Back Side Coating Thickness | 参照客户要求<br>Customer requirement | 8μm | √ | 膜厚仪<br>Coating Thickness Detector |
| 9 | 划痕实验（级）<br>Scratch test | ≤1级 | 0级 | √ | 参考实验<br>Reference experiment |
| 10 | 冲击试验<br>Impact resistance test | 无龟裂、无脱漆<br>No cracking and paint peeling | 50kg.cm合格 | √ | 冲击仪<br>Impact tester |
| 11 | 耐溶剂性<br>MEK | ≥100次 | ≥100次 | √ | 丁　酮<br>Xylene、Butanone |
| 12 | 耐热水性<br>Boiling Water Resistance | ≤1级 | 0级 | √ | 沸水煮2Hr<br>Boiling water for 2Hr |
| 备注<br>notes | 合　　格（ Qualified） | | | | |

检测标准参考（Testing standard reference）：
GB/T 23443-2024建筑装饰用铝单板（GB/T 23443-2024 Aluminum veneer for architectural decoration）；
AAMA 2605 针对用于挤出型材及板材表面的具有优异性能有机涂层的性能要求及检验程序
（AAMA 2605 Performance requirements and inspection procedures for organic coatings with excellent performance used for extruded profiles and sheet surfaces）；

备注（notes）：合格项目打“√”（Qualified projects strike “√” ），不合格项目打“X”（Unqualified items strike “X” ）；

质检专用章

检验inspect李晓冬　　审核examine：孙洪涛

YATAI 亚泰新材

# 产品质量合格证书

# PRODUCT QUALITY CERTIFICATE

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 测试日期<br>Test date | 2026.08.17 | | | 山东亚泰新材料科技有限公司<br>Shandong Yatai New Materials Technology Co., Ltd | | | | | |
| 产品名称<br>Product | 彩涂铝卷<br>Color-coated aluminum rol | | | 规格<br>Dimension | | | | 0.36*137 | |
| 合金-状态<br>Alloy-Temper | 3105H46 | | | 颜 色<br>Lot No | | | | 双涂砂面浅棕<br>Double-coated sand finish - light brown | |
| 技术标准<br>Technique Standard | | | ASTM B 209M | 性能标准<br>Performance standards | | | | GB/T 3880.2-2024 | |
| 化学成分%<br>Chemical Composition | | | | | | | | | |
| 元 素<br>Element | Si | Fe | Cu | Mn | Zn | Cr | Ti | Mg | Al |
| 标准值<br>StandardValue | 0.6 | 0.7 | 0.3 | 0.3-0.8 | 0.4 | 0.2 | 0.1 | 0.2-0.8 | 余量 |
| 光铝基材机械性能 Mechanical Property | | | | | | 尺寸公差(mm) Dimension Tolerance | | | |
| 项目<br>project | 抗拉强度Rm(N/mm2)<br>Tensile Strength | | 规定非比例延伸强度<br>Rp0.2(N/mm2)<br>Yield Strength | 断后伸长率<br>A50 mm%<br>Elongation | | | | 宽 度<br>Width | |
| 国标标准<br>National standard | 175-225 | | 150 | 4%<br>（不低于not less than） | | | | ±2 mm | |
| 实测数值<br>Measured value | 204 | | 167 | 13% | | | | ±2 mm | |
| 针孔度<br>Degree of Pinhole | | | 刷水试验<br>Stickiness | 表面质量<br>Surface Quality | | | | 其 它<br>Else | |
| ＜50 | | | A | 良 好<br>Pass | | | | 合格<br>qualified | |

注意事项note：

1、装卸搬运时应小心轻放，不得受雨淋；During loading, unloading and handling, handle with care and avoid being exposed to rain.

2、储存库房应清洁、干燥、无腐蚀性气氛，应能防止雨、雪侵入；The storage warehouse should be clean, dry, without corrosive atmosphere, and should be able to prevent rain and snow from entering.

3、需方收到产品后应在15日内组织检查验收，若发现产品包装破损或有腐蚀现象，应立即通知供方；The purchaser shall organize inspection and acceptance within 15 days after receiving the product, if product packaging is found to be damaged or corroded, the supplier should be notified immediately.

4、收到本公司产品后，如有对表面质量或力学性能有异议，应在3个月内向供方提出，并请务必注明合同号、批号、规格、日期、质量问题与标准对比情况，如果方便，请提供样片或照片；After receiving our company's products, if there are any objections to surface quality or mechanical properties, should be submitted to the supplier within 3 months, please make sure to indicate the contract number, batch number, specifications, date, quality issues and comparison with the standard, if convenient, please provide samples or photos.

5、质量保证书加盖产品质量合格专用章有效。请妥善保管，遗失不补。The quality assurance certificate is valid when stamped with the special seal for product quality qualification, please keep it safe and do not make up for lost items.

检验inspect李晓冬　　审核examine：孙洪涛