



测试报告

报告号: SHHG1507023293HA

日期: 2015-12-10

页码: 1 / 14

江苏万源新材料有限公司
镇江市丹徒区上党镇兴业路工业园

下列样品由客户提供及确认为:

产品名称 : 丙烯酸涂层铝箔
收样日期 : 2015年07月01日
测试时间 : 2015年07月01日至2015年12月10日
测试要求 : ASTM B117-2011 & ASTM D1654-2008
测试结论 : 测试结果供客户自行分析

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测试项目:

1. 测试样的预处理

腐蚀环境中涂漆或覆层试样评估的标准试验方法(ASTM D1654-2008)

预处理类型: 无划痕

2. 测试方法和要求:

盐雾喷射装置的标准操作规程 (ASTM B117-2011)

| | | |
|-------------------|--|-----------------------------|
| 测试样数量 | 1 个 | |
| 样品防护 | 无 | |
| 基材和涂层 | 基材: 铝 涂层: 丙烯酸涂料 | |
| 样品清洗方法 (测试前) | 用流动的清水冲洗 | |
| 样品清洗方法 (测试后) | 使用温度不超过 38°C (100°F) 的清洁、流动水进行清洗或浸洗样品以去除表面沉积的盐, 然后立即使用清洁的压缩气体进行干燥。 | |
| 支撑或悬挂方法 | 支撑在塑料支架上 | |
| 测试周期 | 3600 小时 | |
| 测试中测试中断原因及时间 | 无 | |
| 中间检查间隔 | 500 小时之后, 每 100 小时 | |
| 中间检查结果 | 见测试结果 | |
| 配制盐溶液的盐和水的类型 | 氯化钠: 分析纯级别 水: 去离子水 | |
| 盐溶液 | 按照质量, 将 5±1 份的分析纯试剂级别的氯化钠溶液在 95 份的去离子水中。 | |
| | 要求 | 结果 |
| 测试表面倾斜的角度 | 与垂线成 15~30° | 30° |
| 测试温度 | 35°C±2°C. | 35°C. |
| 盐雾沉降率 | 1.0~2.0 (mL/h)/80cm ² | 1.4(mL/h)/80cm ² |
| 收集液 pH 值 (23±3°C) | 6.5~7.2 | 7.0 |
| 收集液浓度或密度 (25°C) | 5±1 mass%或符合表 3 的密度 | 1.033 |



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3. 评定结果:

腐蚀环境中涂漆或覆层试样评估的标准试验方法(ASTM D1654-2008)

3.1 方法 B—无划痕区域的评定

使用 ASTM D714 中的标准起泡照片对起泡的结果进行评级, 使用 ASTM D610 对锈蚀的结果进行评级。

| 样品编号 | 评级 (根据表 1) | 锈蚀类型 (根据表 1) |
|---------|------------|--------------|
| 500 小时 | 10 级 | / |
| 600 小时 | 10 级 | / |
| 700 小时 | 10 级 | / |
| 800 小时 | 10 级 | / |
| 900 小时 | 10 级 | / |
| 1000 小时 | 10 级 | / |
| 1100 小时 | 10 级 | / |
| 1200 小时 | 10 级 | / |
| 1300 小时 | 10 级 | / |
| 1400 小时 | 10 级 | / |
| 1500 小时 | 10 级 | / |
| 1600 小时 | 10 级 | / |
| 1700 小时 | 10 级 | / |
| 1800 小时 | 10 级 | / |
| 1900 小时 | 10 级 | / |
| 2000 小时 | 10 级 | / |
| 2100 小时 | 10 级 | / |
| 2200 小时 | 10 级 | / |
| 2300 小时 | 10 级 | / |
| 2400 小时 | 10 级 | / |
| 2500 小时 | 10 级 | / |



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| | | |
|---------|------|---|
| 2600 小时 | 10 级 | / |
| 2700 小时 | 10 级 | / |
| 2800 小时 | 10 级 | / |
| 2900 小时 | 10 级 | / |
| 3000 小时 | 10 级 | / |
| 3100 小时 | 10 级 | / |
| 3200 小时 | 10 级 | / |
| 3300 小时 | 10 级 | / |
| 3400 小时 | 10 级 | / |
| 3500 小时 | 10 级 | / |
| 3600 小时 | 10 级 | / |

表 1

| 锈蚀等级 | 表面锈蚀百分率 |
|------|--|
| 10 | ≤ 0.01 |
| 9 | > 0.01% 且 ≤ 0.03% |
| 8 | > 0.03% 且 ≤ 0.1% |
| 7 | > 0.1% 且 ≤ 0.3% |
| 6 | > 0.3% 且 ≤ 1.0% |
| 5 | > 1.0% 且 ≤ 3.0% |
| 4 | > 3.0% 且 ≤ 10.0% |
| 3 | > 10.0% 且 ≤ 16.0% |
| 2 | > 16.0% 且 ≤ 33.0% |
| 1 | > 33.0% 且 ≤ 50.0% |
| 0 | > 50 % |
| 锈蚀类型 | S: 斑点腐蚀 G: 一般腐蚀 P: 针尖腐蚀 H: 混合腐蚀 |



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页码: 5 / 14

Annex

TABLE 3 Temperature versus Density Data

| Temperature °C (°F) | Density, g/cm ³ | | |
|------------------------|------------------------------|------------------------------|------------------------------|
| | 4-percent Salt Concentration | 5-percent Salt Concentration | 6-percent Salt Concentration |
| 20 (68) | 1.025758 | 1.032360 | 1.038867 |
| 21 (69.8) | 1.025480 | 1.032067 | 1.038560 |
| 22 (71.6) | 1.025193 | 1.031766 | 1.038245 |
| 23 (73.4) | 1.024899 | 1.031458 | 1.037924 |
| 24 (75.2) | 1.024596 | 1.031142 | 1.037596 |
| 25 (77) | 1.024286 | 1.030819 | 1.037261 |
| 26 (78.8) | 1.023969 | 1.030489 | 1.036919 |
| 27 (80.6) | 1.023643 | 1.030152 | 1.036570 |
| 28 (82.4) | 1.023311 | 1.029808 | 1.036215 |
| 29 (84.2) | 1.022971 | 1.029457 | 1.035853 |
| 30 (86) | 1.022624 | 1.029099 | 1.035485 |
| 31 (87.8) | 1.022270 | 1.028735 | 1.035110 |
| 32 (89.6) | 1.021910 | 1.028364 | 1.034729 |
| 33 (91.4) | 1.021542 | 1.027986 | 1.034343 |
| 34 (93.2) | 1.021168 | 1.027602 | 1.033950 |
| 35 (95) | 1.020787 | 1.027212 | 1.033551 |
| 36 (96.8) | 1.020399 | 1.026816 | 1.033146 |
| 37 (98.6) | 1.020006 | 1.026413 | 1.032735 |
| 38 (100.4) | 1.019605 | 1.026005 | 1.032319 |
| 39 (102.2) | 1.019199 | 1.025590 | 1.031897 |
| 40 (104) | 1.018786 | 1.025170 | 1.031469 |



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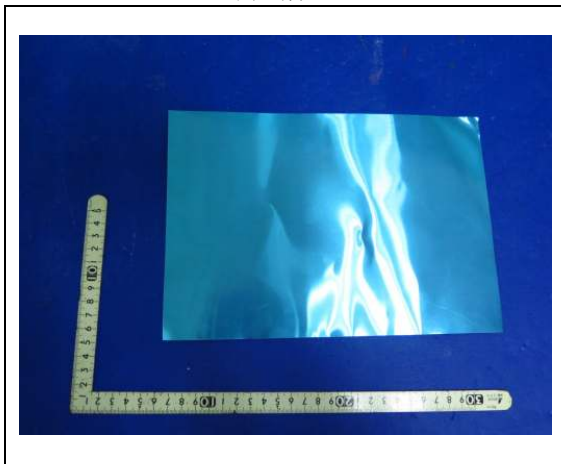
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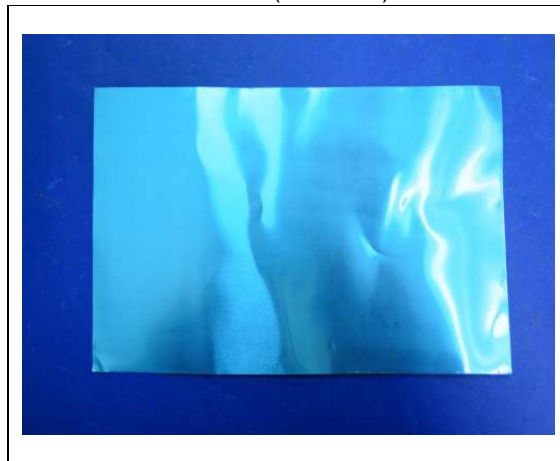
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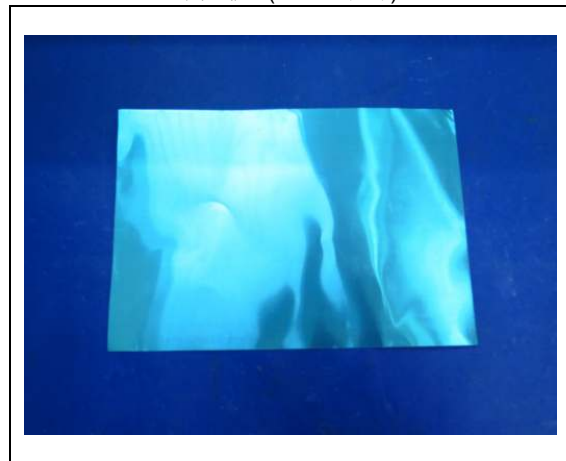
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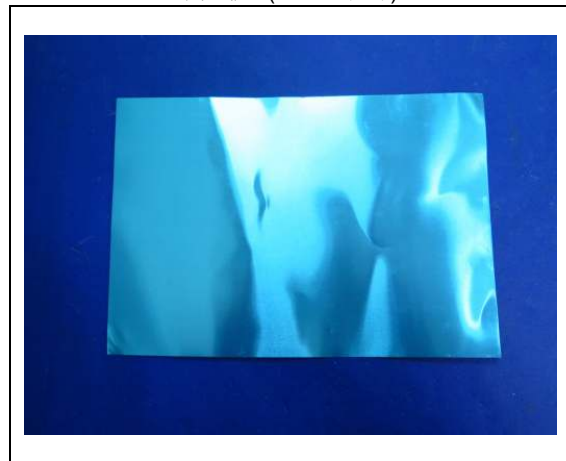
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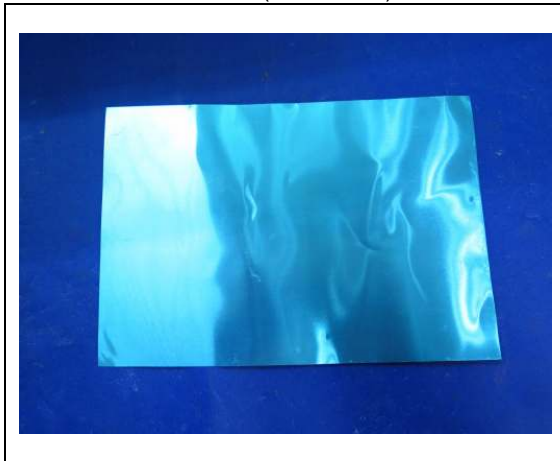
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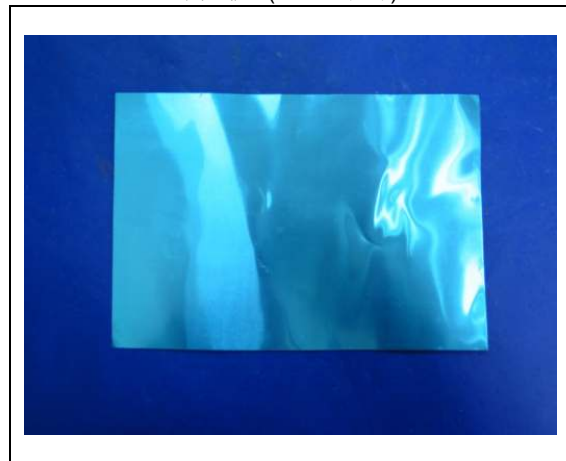
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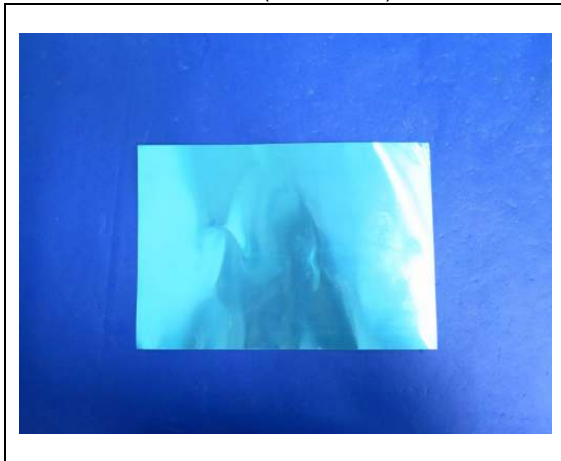
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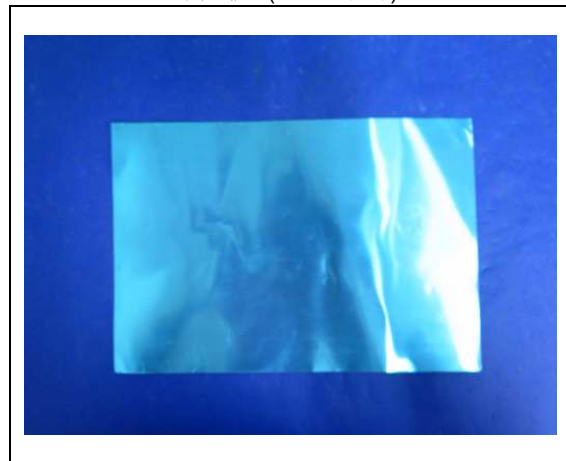
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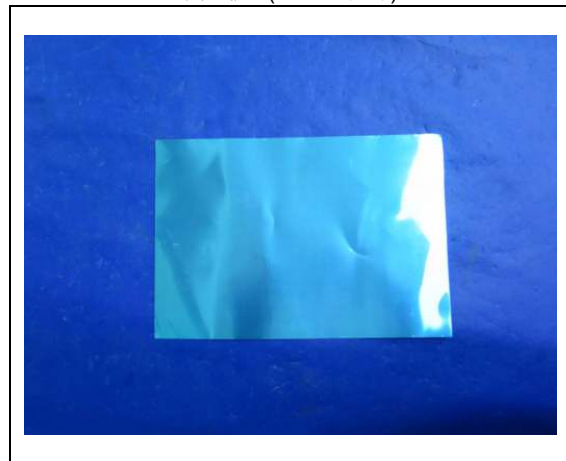
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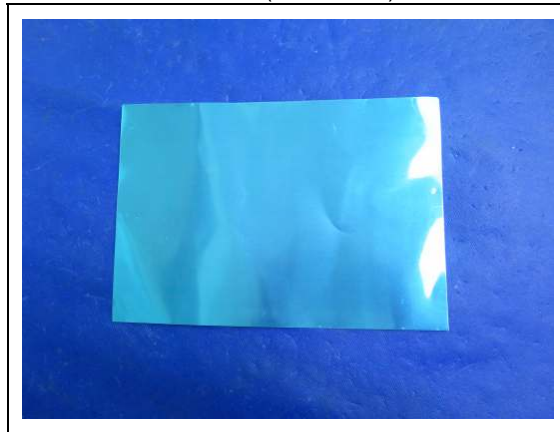
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