

LOTTE ALUMINIUM.CO.,LTD

201, Haean-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Korea

FAX: +82-31-489-5696, TEL:+82-31-489-5798

SPECIFICATION

2015-09-14

| | | | |
|--------------------|--------------|---------------------|-------------------|
| Name | LB-P3 | Product date | 2015-07-21 |
| LOT No | - | Test RL | 1RL |
| TEST Method | N=3 | TOTAL | 1RL |

| Item | Unit | Spec | | Result | Decision |
|--|----------------------------|-------------------|--------------|---------------|-----------------|
| Thickness | μm | 308 ± 7% | | 310.4 | OK |
| Width | mm | 1000 + 0~2 | | 1001.5 | OK |
| Tensile Strength | N/15_{mm} | MD | ≥ 300 | 462.2 | OK |
| | | TD | ≥ 400 | 738.7 | OK |
| Elongation | % | MD | ≥ 50 | 83.3 | OK |
| | | TD | ≥ 50 | 85.3 | OK |
| Shrinkage Rate (150°C, 10min) | % | MD | ≤ 0.8 | 0.33 | OK |
| | | TD | ≤ 0.8 | 0.00 | OK |
| MVTR | g/m²-day | ≤ 2.5 | | 1.58 | OK |
| Adhesion (White PET/PET) | N/15_{mm} | ≥ 3 | | 5.9 | OK |
| Adhesion (PET/LDPE) | N/15_{mm} | ≥ 6 | | 8.2 | OK |
| Adhesion (BS / EVA / BS) | N/15_{mm} | ≥ 100 | | 168.06 | OK |
| Adhesion (BS / POE / BS) | N/15_{mm} | ≥ 100 | | 202.3 | OK |

LOTTE ALUMINIUM.CO.,LTD

201, Haean-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Korea

FAX: +82-31-489-5696, TEL:+82-31-489-5798

SPECIFICATION

2015-09-14

| | | | |
|--------------------|--------------|---------------------|-------------------|
| Name | LB-P3 | Product date | 2015-07-21 |
| LOT No | - | Test RL | 1RL |
| TEST Method | N=3 | TOTAL | 1RL |

| Item | Unit | | Result | |
|-------------------------------------|--------------------------|-----------|--------------------|------------------|
| | | | Q-UV 1000hr | DH 1000hr |
| Tensile Strength | N/15_{mm} | MD | - | 523 |
| | | TD | 778.9 | 691 |
| Elongation | % | MD | - | 113 |
| | | TD | 103.5 | 67.7 |
| Adhesion (White PET/PET) | N/15_{mm} | | 7.9 | 4.1 |
| Adhesion (PET/LDPE) | N/15_{mm} | | 7.0 | 7.5 |
| YI | △b* | | 1.63 | 0.18 |

LOTTE ALUMINIUM.CO.,LTD

201, Haean-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Korea

FAX: +82-31-489-5696, TEL:+82-31-489-5798

SPECIFICATION

2015-09-14

| | | | |
|--------------------|--------------|---------------------|-------------------|
| NAME | LB-P3 | Product date | 2015-07-21 |
| LOT No | - | Test RL | 1RL |
| TEST Method | N=3 | TOTAL | 1RL |

| Item | Unit | | PCT 72hr Result |
|-------------------------------------|--------------------------|-----------|------------------------|
| | | | LB-P3 |
| Tensile Strength | N/15_{mm} | MD | 429.6 |
| | | TD | 624.3 |
| Elongation | % | MD | 64.1 |
| | | TD | 67 |
| Adhesion (White PET/PET) | N/15_{mm} | | 5.5 |
| Adhesion (PET/LDPE) | N/15_{mm} | | 5.9 |
| YI | △b* | | -0.20 |