



Universal Packaging Company (Pvt) Ltd

Effective Date

12.12.2022

Certificate Of Analysis

Rev:0

REC-QA-34-22

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| | | | |
|------------------|------------------|------------------|---|
| Customer Name: | UNILEVER | Job Name: | REEL SUNLIGHT GREEN RS. 50 SINGLE LANE Q3 CP |
| Job card #: | 23090126 | Structure: | PET (10μ) + M.LDPE (50μ) |
| Dispatched Date: | 22-Sep-23 | Production Date: | 09/19/23 |
| Best Before: | 6 Months | Sampling Plan: | SOP-QA-11-19 |
| Dispatched Qty: | 1,213,988.00 PCS | Vehicle Number : | JU-8755 |

| S.NO | Parameters | Target | Min | Max | Test method | Unit | Results |
|------|--|--------|-------|-------|-------------|-------------------|---------|
| 1 | Grammage | 62.32 | 56.79 | 67.85 | ISO 536 | g/m ² | 63.0 |
| 2 | Reel Width | 360 | 359 | 361 | Internal | mm | 360 |
| 3 | Coef of Fr. Dynamic face\face | 0.25 | 0.22 | 0.28 | ASTM D1894 | Number | 0.27 |
| 4 | Coef of Fr. Dynamic Reverse\Reverse | 0.23 | 0.2 | 0.26 | ASTM D1894 | Number | 0.25 |
| 5 | Coef of Fr. Static face\face | 0.23 | 0.2 | 0.26 | ASTM D1894 | Number | 0.23 |
| 6 | Coef of Fr. Static Reverse\Face | 0.25 | 0.22 | 0.28 | ASTM D1894 | Number | 0.26 |
| 7 | Lamination Strength | 1.25 | 1.1 | - | F 904-98 | N/15mm | 3.2 |
| 8 | Repeat Length | 180 | 179 | 181 | Internal | mm | 180 |
| 9 | Seal Strength | 40 | 32 | - | ASTM F88 | N/15mm | 37 |
| 10 | Tensile Strength @ Break (CD) | 48 | 44 | - | ASTM D882 | N/mm ² | 46 |
| 11 | Tensile Strength @ Break (MD) | 37 | 32 | - | ASTM D882 | N/mm ² | 36 |
| 12 | Thickness | 62.32 | 56.59 | 68.05 | DIN 53370 | μ | 65 |

Remarks: Storage condition, Temperature should be below 30°C & 50% humidity.

Note: System generated document signature donot required.

Universal Packaging Company(pvt) Ltd. Plot No : GA-65-66-A4-A5, Korangi Creek National Industrial park, Korangi Town
Karachi,Pakistan