|  |  |  |  |
| --- | --- | --- | --- |
| **Tested Parameters** | **Standard Method** | **Standard** | **PCC** |
| Viscosity Pure (sec,ZC2) | ASTM D1200 | 16 | 23 |
| Printing viscosity (sec,ZC2) | ASTM D1200 | 16 | 16 |
| L:a:b Values | ASTM E313 | 69.1 : 2.3 : 71.6 | 69.5 : 3.1 : 71.9 |
| Drying time | PCC/LAB/SOP-001 | Standard | As per standard |
| Heat Seal at 140°C | PCC/LAB/WI-009 | Ok | Ok |
| Tape Test | PCC/LAB/SOP-001 | Ok | Ok |
| Scratch Test | PCC/LAB/SOP-001 | Ok | Ok |
| Solid % | ASTM D2369 | - | 34 |

Customer: Toyo Packages

Ink Code: RRP-2051(Yellow) Date: 14-10-2021

**Shade**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Standard(PET)** | **PCC(PET)** | **Standard(PET)** | **PCC(PET)** |
| **Customer substrate** | | **PCC substrate** | |

Remarks: Use ink at printing viscosity

\*Viscosity is checked at controlled temperature (25°C). Actual viscosity may vary depending on ambient temperature.

Evaluator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Approved by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Customer: Toyo Packages

Ink Code: RRP-1026E(White) Date: 14-10-2021

**Shade**

|  |  |  |  |
| --- | --- | --- | --- |
| **Tested Parameters** | **Standard Method** | **Standard** | **PCC** |
| Viscosity Pure (sec,ZC2) | ASTM D1200 | 12 | 22 |
| Printing viscosity (sec,ZC2) | ASTM D1200 | 12 | 16 |
| L:a:b Values | ASTM E313 | 75.7 : 3.3 : 0.0 | 77.0 : 2.8 : 0.5 |
| Drying time | PCC/LAB/SOP-001 | Standard | As per standard |
| Heat Seal at 140°C | PCC/LAB/WI-009 | Ok | Ok |
| Tape Test | PCC/LAB/SOP-001 | Ok | Ok |
| Scratch Test | PCC/LAB/SOP-001 | Ok | Ok |
| Opacity | ISO 2471 | 62.83 | 63.73 |
| Solid % | ASTM D2369 | - | 47 |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Standard(PET)** | **PCC(PET)** | **Standard(PET)** | **PCC(PET)** |
| **Customer substrate** | | **PCC substrate** | |

Remarks: Use ink at printing viscosity

\*Viscosity is checked at controlled temperature (25°C). Actual viscosity may vary depending on ambient temperature.

Evaluator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Approved by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Customer: Toyo Packages

Ink Code: RRP-4274 (Magenta) Date: 14-10-2021

|  |  |  |  |
| --- | --- | --- | --- |
| **Tested Parameters** | **Standard Method** | **Standard** | **PCC** |
| Viscosity Pure (sec,ZC2) | ASTM D1200 | 15 | 20 |
| Printing viscosity (sec,ZC2) | ASTM D1200 | 15 | 16 |
| L:a:b Values | ASTM E313 | 36.1 : 53.6 : 27.7 | 33.4 : 63.5 : 7.6 |
| Drying time | PCC/LAB/SOP-001 | Standard | As per standard |
| Heat Seal at 140°C | PCC/LAB/WI-009 | Ok | Ok |
| Tape Test | PCC/LAB/SOP-001 | Ok | Ok |
| Scratch Test | PCC/LAB/SOP-001 | Ok | Ok |
| Solid % | ASTM D2369 | - | 32 |

**Shade**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Standard(PET)** | **PCC(PET)** | **Standard(PET)** | **PCC(PET)** |
| **Customer substrate** | | **PCC substrate** | |

Remarks: Use ink at printing viscosity

\*Viscosity is checked at controlled temperature (25°C). Actual viscosity may vary depending on ambient temperature.

Evaluator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Approved by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Customer: Toyo Packages

Ink Code: RRP-6257(Cyan) Date: 14-10-2021

|  |  |  |  |
| --- | --- | --- | --- |
| **Tested Parameters** | **Standard Method** | **Standard** | **PCC** |
| Viscosity Pure (sec,ZC2) | ASTM D1200 | 15 | 15 |
| Printing viscosity (sec,ZC2) | ASTM D1200 | 15 | 15 |
| L:a:b Values | ASTM E313 | 42.3 : -16.3 : -42.6 | 44.3 : -21.0 : -40.2 |
| Drying time | PCC/LAB/SOP-001 | Standard | As per standard |
| Heat Seal at 140°C | PCC/LAB/WI-009 | Ok | Ok |
| Tape Test | PCC/LAB/SOP-001 | Ok | Ok |
| Scratch Test | PCC/LAB/SOP-001 | Ok | Ok |
| Solid % | ASTM D2369 | - | 30 |

**Shade**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Standard(PET)** | **PCC(PET)** | **Standard(PET)** | **PCC(PET)** |
| **Customer substrate** | | **PCC substrate** | |

Remarks: Use ink at printing viscosity

\*Viscosity is checked at controlled temperature (25°C). Actual viscosity may vary depending on ambient temperature.

Evaluator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Approved by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Customer: Toyo Packages

Ink Code: RRP-1026E(White) Date: 14-10-2021

**Shade**

|  |  |  |  |
| --- | --- | --- | --- |
| **Tested Parameters** | **Standard Method** | **Standard** | **PCC** |
| Viscosity Pure (sec,ZC2) | ASTM D1200 | 12 | 22 |
| Printing viscosity (sec,ZC2) | ASTM D1200 | 12 | 16 |
| L:a:b Values | ASTM E313 | 75.7 : 3.3 : 0.0 | 77.0 : 2.8 : 0.5 |
| Drying time | PCC/LAB/SOP-001 | Standard | As per standard |
| Heat Seal at 140°C | PCC/LAB/WI-009 | Ok | Ok |
| Tape Test | PCC/LAB/SOP-001 | Ok | Ok |
| Scratch Test | PCC/LAB/SOP-001 | Ok | Ok |
| Opacity | ISO 2471 | 62.83 | 63.73 |
| Solid % | ASTM D2369 |  | 47 |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Standard(BOPP)** | **PCC(BOPP)** | **Standard(BOPP)** | **PCC(BOPP)** |
| **Customer substrate 1** | | **Customer substrate 2** | |

Remarks: Use ink at printing viscosity

\*Viscosity is checked at controlled temperature (25°C). Actual viscosity may vary depending on ambient temperature.

Evaluator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Approved by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Customer: Toyo Packages

Ink Code: RRP-4263 (Magenta) Date: 22-10-2021

|  |  |  |  |
| --- | --- | --- | --- |
| **Tested Parameters** | **Standard Method** | **Standard** | **PCC** |
| Viscosity Pure (sec,ZC2) | ASTM D1200 | 15 | 18 |
| Printing viscosity (sec,ZC2) | ASTM D1200 | 15 | 15 |
| L:a:b Values | ASTM E313 | 36.1 : 53.6 : 27.7 | 37.5: 54.5: 8.50 |
| Drying time | PCC/LAB/SOP-001 | Standard | As per standard |
| Heat Seal at 140°C | PCC/LAB/WI-009 | Ok | Ok |
| Tape Test | PCC/LAB/SOP-001 | Ok | Ok |
| Scratch Test | PCC/LAB/SOP-001 | Ok | Ok |
| Solid % | ASTM D2369 | - | 30 |

**Shade**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Standard(PET)** | **PCC(PET)** | **Standard(PET)** | **PCC(PET)** |
| **Customer substrate** | | **PCC substrate** | |

Remarks: Use ink at printing viscosity

\*Viscosity is checked at controlled temperature (25°C). Actual viscosity may vary depending on ambient temperature.

Evaluator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Approved by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Customer: Toyo Packages

Ink Code: RRP-4263 (Magenta) Date: 22-10-2021

|  |  |  |  |
| --- | --- | --- | --- |
| **Tested Parameters** | **Standard Method** | **Standard** | **PCC** |
| Viscosity Pure (sec,ZC2) | ASTM D1200 | 15 | 18 |
| Printing viscosity (sec,ZC2) | ASTM D1200 | 15 | 15 |
| L:a:b Values | ASTM E313 | 36.1 : 53.6 : 27.7 | 37.5: 54.5: 8.50 |
| Drying time | PCC/LAB/SOP-001 | Standard | As per standard |
| Heat Seal at 140°C | PCC/LAB/WI-009 | Ok | Ok |
| Tape Test | PCC/LAB/SOP-001 | Ok | Ok |
| Scratch Test | PCC/LAB/SOP-001 | Ok | Ok |
| Solid % | ASTM D2369 | - | 30 |

**Shade**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Standard(BOPP)** | **PCC(BOPP)** | **Standard(BOPP)** | **PCC(BOPP)** |
| **Customer substrate 1** | | **Customer substrate 2** | |

Remarks: Use ink at printing viscosity

\*Viscosity is checked at controlled temperature (25°C). Actual viscosity may vary depending on ambient temperature.

Evaluator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Approved by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Customer: Toyo Packages

Ink Code: RRP-2051(Yellow) Date: 14-10-2021

|  |  |  |  |
| --- | --- | --- | --- |
| **Tested Parameters** | **Standard Method** | **Standard** | **PCC** |
| Viscosity Pure (sec,ZC2) | ASTM D1200 | 16 | 22 |
| Printing viscosity (sec,ZC2) | ASTM D1200 | 16 | 16 |
| L:a:b Values | ASTM E313 | 69.1 : 2.3 : 71.6 | 69.5 : 3.1 : 71.9 |
| Drying time | PCC/LAB/SOP-001 | Standard | As per standard |
| Heat Seal at 140°C | PCC/LAB/WI-009 | Ok | Ok |
| Tape Test | PCC/LAB/SOP-001 | Ok | Ok |
| Scratch Test | PCC/LAB/SOP-001 | Ok | Ok |
| Solid % | ASTM D2369 | - | 34 |

**Shade**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Standard(BOPP)** | **PCC(BOPP)** | **Standard(BOPP)** | **PCC(BOPP)** |
| **Customer substrate 1** | | **Customer substrate 2** | |

Remarks: Use ink at printing viscosity

\*Viscosity is checked at controlled temperature (25°C). Actual viscosity may vary depending on ambient temperature.

Evaluator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Approved by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_