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TECHNICAL SPECIFICATION SHEET (J-201)

DESCRIPTION:

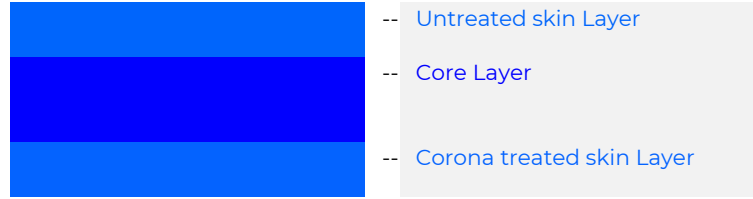
High Mechanical, Optical & Thermal characteristics with Improved Ink / Metal Adhesion characteristics.

APPLICATIONS:

Packaging, Printing, Lamination and Metallization.

SALIENT FEATURES:

- Good Clarity
- Improved Adhesion Properties
- Excellent Machinability
- Excellent Mechanical and Thermal Properties
- Excellent for Printing and Metallization



TECHNICAL DATA

| PROPERTIES | | TEST METHOD | UNIT | J-201 | |
|--|----------|-------------|-------------------------------|---------|---------|
| PHYSICAL | | | | | |
| Thickness | | ASTM D374 | Micron | 8 | 9 |
| | | ASTM D374 | Gauge | 32 | 36 |
| Yield | | JPFTM | m ² /kg | 89.3 | 79.4 |
| | | JPFTM | in ² /lb | 62700.0 | 55700.0 |
| OPTICAL | | | | | |
| Haze (Max) | | ASTM D1003 | % | 3.0 | 3.0 |
| Total luminous transmittance | | ASTM D1003 | % | 89.0 | 89.0 |
| MECHANICAL | | | | | |
| Tensile Strength | (MD) Min | ASTM D882 | kg/cm ² | 2000 | 2000 |
| | (MD) Min | ASTM D882 | psi | 28500 | 28500 |
| | (TD) Min | ASTM D882 | kg/cm ² | 1900 | 1900 |
| | (TD) Min | ASTM D882 | psi | 27000 | 27000 |
| Elongation | (MD) Min | ASTM D882 | % | 90 | 90 |
| | (TD) Min | ASTM D882 | % | 90 | 90 |
| Coefficient of friction(Side-A/B) | St (Max) | ASTM D1894 | - | 0.65 | 0.65 |
| | Dy (Max) | ASTM D1894 | - | 0.60 | 0.60 |
| THERMAL | | | | | |
| Shrinkage (150°C/30 min) | (MD) Max | ASTM D1204 | % | 2.8 | 2.8 |
| | (TD) Max | ASTM D1204 | % | 0.4 | 0.4 |
| SURFACE | | | | | |
| Wetting Tension (Corona Side) | | ASTM D2578 | Dyne/cm | 54 | 54 |
| BARRIER | | | | | |
| Water Vapour Transmission Rate (38°C & 90% RH) | | ASTM E398 | g/m ² /day | 75 | 75 |
| | | ASTM E398 | g/100 inch ² /day | 4.9 | 4.9 |
| Oxygen Gas Transmission Rate (23°C & 0% RH) | | ASTM D3985 | cc/m ² /day | 185 | 175 |
| | | ASTM D3985 | cc/100 inch ² /day | 12.2 | 11.5 |

| TECHNICAL DATA | | | | | |
|---|----------|-------------|-------------------------------|---------|---------|
| PROPERTIES | | TEST METHOD | UNIT | J-201 | |
| PHYSICAL | | | | | |
| Thickness | | ASTM D374 | Micron | 10 | 11 |
| | | ASTM D374 | Gauge | 40 | 44 |
| Yield | | JPFTM | m ² /kg | 71.4 | 64.9 |
| | | JPFTM | in ² /lb | 50200.0 | 45650.0 |
| OPTICAL | | | | | |
| Haze (Max) | | ASTM D1003 | % | 3.5 | 3.5 |
| Total luminous transmittance | | ASTM D1003 | % | 89.0 | 89.0 |
| MECHANICAL | | | | | |
| Tensile Strength | (MD) Min | ASTM D882 | kg/cm ² | 2000 | 2000 |
| | (MD) Min | ASTM D882 | psi | 28500 | 28500 |
| | (TD) Min | ASTM D882 | kg/cm ² | 1900 | 1900 |
| | (TD) Min | ASTM D882 | psi | 27000 | 27000 |
| Elongation | (MD) Min | ASTM D882 | % | 90 | 90 |
| | (TD) Min | ASTM D882 | % | 90 | 90 |
| Coefficient of friction(Side-A/B) | St (Max) | ASTM D1894 | - | 0.60 | 0.60 |
| | Dy (Max) | ASTM D1894 | - | 0.55 | 0.50 |
| THERMAL | | | | | |
| Shrinkage (150°C/30 min) | (MD) Max | ASTM D1204 | % | 2.8 | 2.8 |
| | (TD) Max | ASTM D1204 | % | 0.4 | 0.4 |
| SURFACE | | | | | |
| Wetting Tension (Corona Side) | | ASTM D2578 | Dyne/cm | 54 | 54 |
| BARRIER | | | | | |
| Water Vapour Transmission Rate (38°C & 90% RH) | | ASTM E398 | g/m ² /day | 55 | 50 |
| | | ASTM E398 | g/100 inch ² /day | 3.6 | 3.2 |
| Oxygen Gas Transmission Rate (23°C & 0% RH) | | ASTM D3985 | cc/m ² /day | 140 | 130 |
| | | ASTM D3985 | cc/100 inch ² /day | 9.4 | 8.5 |

| TECHNICAL DATA | | | | | |
|---|----------|-------------|-------------------------------|---------|---------|
| PROPERTIES | | TEST METHOD | UNIT | J-201 | |
| PHYSICAL | | | | | |
| Thickness | | ASTM D374 | Micron | 12 | 15 |
| | | ASTM D374 | Gauge | 48 | 60 |
| Yield | | JPFTM | m ² /kg | 59.5 | 47.6 |
| | | JPFTM | in ² /lb | 41800.0 | 33500.0 |
| OPTICAL | | | | | |
| Haze (Max) | | ASTM D1003 | % | 3.5 | 3.5 |
| Total luminous transmittance | | ASTM D1003 | % | 89.0 | 89.0 |
| MECHANICAL | | | | | |
| Tensile Strength | (MD) Min | ASTM D882 | kg/cm ² | 2000 | 2000 |
| | (MD) Min | ASTM D882 | psi | 28500 | 28500 |
| | (TD) Min | ASTM D882 | kg/cm ² | 1900 | 1900 |
| | (TD) Min | ASTM D882 | psi | 27000 | 27000 |
| Elongation | (MD) Min | ASTM D882 | % | 90 | 90 |
| | (TD) Min | ASTM D882 | % | 90 | 90 |
| Coefficient of friction(Side-A/B) | St (Max) | ASTM D1894 | - | 0.60 | 0.60 |
| | Dy (Max) | ASTM D1894 | - | 0.50 | 0.50 |
| THERMAL | | | | | |
| Shrinkage (150°C/30 min) | (MD) Max | ASTM D1204 | % | 2.8 | 2.8 |
| | (TD) Max | ASTM D1204 | % | 0.4 | 0.4 |
| SURFACE | | | | | |
| Wetting Tension (Corona Side) | | ASTM D2578 | Dyne/cm | 54 | 54 |
| BARRIER | | | | | |
| Water Vapour Transmission Rate (38°C & 90% RH) | | ASTM E398 | g/m ² /day | 45 | 38 |
| | | ASTM E398 | g/100 inch ² /day | 3 | 2.5 |
| Oxygen Gas Transmission Rate (23°C & 0% RH) | | ASTM D3985 | cc/m ² /day | 110 | 90 |
| | | ASTM D3985 | cc/100 inch ² /day | 7 | 5.8 |

| TECHNICAL DATA | | | | | |
|---|----------|-------------|-------------------------------|---------|---------|
| PROPERTIES | | TEST METHOD | UNIT | J-201 | |
| PHYSICAL | | | | | |
| Thickness | | ASTM D374 | Micron | 19 | 23 |
| | | ASTM D374 | Gauge | 76 | 92 |
| Yield | | JPFTM | m ² /kg | 37.5 | 31.0 |
| | | JPFTM | in ² /lb | 26300.0 | 21800.0 |
| OPTICAL | | | | | |
| Haze (Max) | | ASTM D1003 | % | 3.5 | 3.5 |
| Total luminous transmittance | | ASTM D1003 | % | 89.0 | 89.0 |
| MECHANICAL | | | | | |
| Tensile Strength | (MD) Min | ASTM D882 | kg/cm ² | 2000 | 2000 |
| | (MD) Min | ASTM D882 | psi | 28500 | 28500 |
| | (TD) Min | ASTM D882 | kg/cm ² | 1900 | 1900 |
| | (TD) Min | ASTM D882 | psi | 27000 | 27000 |
| Elongation | (MD) Min | ASTM D882 | % | 90 | 90 |
| | (TD) Min | ASTM D882 | % | 90 | 90 |
| Coefficient of friction(Side-A/B) | St (Max) | ASTM D1894 | - | 0.60 | 0.60 |
| | Dy (Max) | ASTM D1894 | - | 0.50 | 0.50 |
| THERMAL | | | | | |
| Shrinkage (150°C/30 min) | (MD) Max | ASTM D1204 | % | 2.8 | 2.8 |
| | (TD) Max | ASTM D1204 | % | 0.4 | 0.4 |
| SURFACE | | | | | |
| Wetting Tension (Corona Side) | | ASTM D2578 | Dyne/cm | 54 | 54 |
| BARRIER | | | | | |
| Water Vapour Transmission Rate (38°C & 90% RH) | | ASTM E398 | g/m ² /day | 35 | 28 |
| | | ASTM E398 | g/100 inch ² /day | 2.3 | 1.8 |
| Oxygen Gas Transmission Rate (23°C & 0% RH) | | ASTM D3985 | cc/m ² /day | 80 | 70 |
| | | ASTM D3985 | cc/100 inch ² /day | 5.2 | 4.5 |

| TECHNICAL DATA | | | | | |
|---|----------|-------------|-------------------------------|---------|---------|
| PROPERTIES | | TEST METHOD | UNIT | J-201 | |
| PHYSICAL | | | | | |
| Thickness | | ASTM D374 | Micron | 36 | 50 |
| | | ASTM D374 | Gauge | 144 | 200 |
| Yield | | JPFTM | m ² /kg | 19.8 | 14.0 |
| | | JPFTM | in ² /lb | 13900.0 | 10000.0 |
| OPTICAL | | | | | |
| Haze (Max) | | ASTM D1003 | % | 4.0 | 4.0 |
| Total luminous transmittance | | ASTM D1003 | % | 89.0 | 89.0 |
| MECHANICAL | | | | | |
| Tensile Strength | (MD) Min | ASTM D882 | kg/cm ² | 1900 | 1900 |
| | (MD) Min | ASTM D882 | psi | 27000 | 27000 |
| | (TD) Min | ASTM D882 | kg/cm ² | 1800 | 1800 |
| | (TD) Min | ASTM D882 | psi | 25600 | 25600 |
| Elongation | (MD) Min | ASTM D882 | % | 100 | 100 |
| | (TD) Min | ASTM D882 | % | 90 | 90 |
| Coefficient of friction(Side-A/B) | St (Max) | ASTM D1894 | - | 0.60 | 0.60 |
| | Dy (Max) | ASTM D1894 | - | 0.50 | 0.50 |
| THERMAL | | | | | |
| Shrinkage (150°C/30 min) | (MD) Max | ASTM D1204 | % | 2.8 | 2.8 |
| | (TD) Max | ASTM D1204 | % | 0.4 | 0.4 |
| SURFACE | | | | | |
| Wetting Tension (Corona Side) | | ASTM D2578 | Dyne/cm | 54 | 54 |
| BARRIER | | | | | |
| Water Vapour Transmission Rate (38°C & 90% RH) | | ASTM E398 | g/m ² /day | 22 | 18 |
| | | ASTM E398 | g/100 inch ² /day | 1.4 | 1.2 |
| Oxygen Gas Transmission Rate (23°C & 0% RH) | | ASTM D3985 | cc/m ² /day | 50 | 30 |
| | | ASTM D3985 | cc/100 inch ² /day | 3.2 | 2 |

The values given in this technical datasheet are typical performance data and are believed to be accurate. These are given in good faith but it is for the customer to satisfy of the suitability for its own particular purpose. JINDAL POLY FILMS LIMITED suggests the customer to confirm these values and product compatibility prior to their use and the company offers neither guarantee nor accepts any responsibility for the fitness of the product for any particular use.

JPFTM: JINDAL POLY FILMS TEST METHOD, **MD:** MACHINE DIRECTION, **TD:** TRANSVERSE DIRECTION

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