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TECHNICAL DATA SHEET OPP FILMS

N1

STRUCTURAL CONFIGURATION



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CORONA TREATED SKIN
TRANSPARENT CORE
UNTREATED SKIN

APPLICATIONS:

Book Covers Etc. This Film Is Also Suitable for Cold Seal Application.

DESCRIPTION:

Transparent, Non Heat Sealable, One Side Corona Treated, High Glossy OPP Film with Excellent Clarity, Slip and Antistatic Properties for use in Printing and Lamination Application. The Corona treated side is specifically designed for Excellent Adhesion of Inks and Lamination Adhesives.

SALIENT FEATURES:

- High Surface Gloss and Transparency
- Excellent Clarity
- Excellent Surface Treatment Retention
- Excellent Anchorage of Inks and Lamination Adhesive on Treated Side
- Excellent Machinability
- Very Good Barrier Properties
- Suitable for Various Printing / Lamination Machines

| TECHNICAL DATA | | | | | |
|---|----------|-------------|------------------------|------------|-------|
| PROPERTIES | | TEST METHOD | UNIT | 8 to 50 N1 | |
| PHYSICAL | | | | | |
| Thickness | | ASTM D374 | Micron | 8 | 9 |
| Yield | | JPFTM | m ² /kg | 136.9 | 121.9 |
| Grammage | | JPFTM | gm/m ² | 7.3 | 8.2 |
| OPTICAL | | | | | |
| Haze (Max) | | ASTM D1003 | % | 2.3 | 2.3 |
| Gloss at 45° | | ASTM D2457 | - | 90 | 90 |
| MECHANICAL | | | | | |
| Tensile Strength | (MD) Min | ASTM D882 | kg/cm ² | 1300 | 1300 |
| | (TD) Min | ASTM D882 | kg/cm ² | 2800 | 2800 |
| Elongation | (MD) | ASTM D882 | % | 190 | 190 |
| | (TD) | ASTM D882 | % | 65 | 65 |
| COF Max (Untreated or lower tr/Untreated or lower tr) | | ASTM D1894 | kinetic | 0.38 | 0.38 |
| THERMAL | | | | | |
| Shrinkage (120°C/5min) | (MD) | JPFTM | % | 4.5 | 4.5 |
| | (TD) | JPFTM | % | 2.5 | 2.5 |
| SURFACE | | | | | |
| Treatment level | | ASTM D2578 | Dyne/cm | 38 | 38 |
| BARRIER | | | | | |
| Water Vapour Transmission Rate (38°C & 90% RH) | | ASTM E398 | g/m ² /day | 11.5 | 10 |
| Oxygen Gas Transmission Rate (23°C & 0% RH) | | ASTM D3985 | cc/m ² /day | 2950 | 2550 |
| 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. | | | | | |

| TECHNICAL DATA | | | | | |
|---|----------|-------------|------------------------|------------|------|
| PROPERTIES | | TEST METHOD | UNIT | 8 to 50 N1 | |
| PHYSICAL | | | | | |
| Thickness | | ASTM D374 | Micron | 10 | 12 |
| Yield | | JPFTM | m ² /kg | 109.8 | 91.7 |
| Grammage | | JPFTM | gm/m ² | 9.10 | 10.9 |
| OPTICAL | | | | | |
| Haze (Max) | | ASTM D1003 | % | 2.2 | 2.2 |
| Gloss at 45° | | ASTM D2457 | - | 92 | 92 |
| MECHANICAL | | | | | |
| Tensile Strength | (MD) Min | ASTM D882 | kg/cm ² | 1300 | 1300 |
| | (TD) Min | ASTM D882 | kg/cm ² | 2800 | 2800 |
| Elongation | (MD) | ASTM D882 | % | 190 | 190 |
| | (TD) | ASTM D882 | % | 65 | 65 |
| COF Max (Untreated or lower tr/Untreated or lower tr) | | ASTM D1894 | kinetic | 0.38 | 0.38 |
| THERMAL | | | | | |
| Shrinkage (120°C/5min) | (MD) | JPFTM | % | 4.5 | 4.5 |
| | (TD) | JPFTM | % | 2.5 | 2.5 |
| SURFACE | | | | | |
| Treatment level | | ASTM D2578 | Dyne/cm | 38 | 38 |
| BARRIER | | | | | |
| Water Vapour Transmission Rate (38°C & 90% RH) | | ASTM E398 | g/m ² /day | 9 | 8.5 |
| Oxygen Gas Transmission Rate (23°C & 0% RH) | | ASTM D3985 | cc/m ² /day | 2300 | 2200 |
| 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. | | | | | |

| TECHNICAL DATA | | | | | |
|---|----------|-------------|------------------------|------------|------|
| PROPERTIES | | TEST METHOD | UNIT | 8 to 50 N1 | |
| PHYSICAL | | | | | |
| Thickness | | ASTM D374 | Micron | 15 | 18 |
| Yield | | JPFTM | m ² /kg | 73 | 60.9 |
| Grammage | | JPFTM | gm/m ² | 13.7 | 16.4 |
| OPTICAL | | | | | |
| Haze (Max) | | ASTM D1003 | % | 2.2 | 2.2 |
| Gloss at 45° | | ASTM D2457 | - | 92 | 92 |
| MECHANICAL | | | | | |
| Tensile Strength | (MD) Min | ASTM D882 | kg/cm ² | 1300 | 1300 |
| | (TD) Min | ASTM D882 | kg/cm ² | 2800 | 2800 |
| Elongation | (MD) | ASTM D882 | % | 190 | 190 |
| | (TD) | ASTM D882 | % | 65 | 65 |
| COF Max (Untreated or lower tr/Untreated or lower tr) | | ASTM D1894 | kinetic | 0.38 | 0.38 |
| THERMAL | | | | | |
| Shrinkage (120°C/5min) | (MD) | JPFTM | % | 4 | 3.5 |
| | (TD) | JPFTM | % | 2 | 1.5 |
| SURFACE | | | | | |
| Treatment level | | ASTM D2578 | Dyne/cm | 38 | 38 |
| BARRIER | | | | | |
| Water Vapour Transmission Rate (38°C & 90% RH) | | ASTM E398 | g/m ² /day | 7.5 | 6.5 |
| Oxygen Gas Transmission Rate (23°C & 0% RH) | | ASTM D3985 | cc/m ² /day | 2050 | 1850 |
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| TECHNICAL DATA | | | | | |
|---|----------|-------------|------------------------|------------|------|
| PROPERTIES | | TEST METHOD | UNIT | 8 to 50 N1 | |
| PHYSICAL | | | | | |
| Thickness | | ASTM D374 | Micron | 20 | 25 |
| Yield | | JPFTM | m ² /kg | 55.0 | 44.1 |
| Grammage | | JPFTM | gm/m ² | 18.2 | 22.7 |
| OPTICAL | | | | | |
| Haze (Max) | | ASTM D1003 | % | 2.2 | 2.2 |
| Gloss at 45° | | ASTM D2457 | - | 92 | 92 |
| MECHANICAL | | | | | |
| Tensile Strength | (MD) Min | ASTM D882 | kg/cm ² | 1300 | 1300 |
| | (TD) Min | ASTM D882 | kg/cm ² | 2800 | 2800 |
| Elongation | (MD) | ASTM D882 | % | 190 | 190 |
| | (TD) | ASTM D882 | % | 65 | 65 |
| COF Max (Untreated or lower tr/Untreated or lower tr) | | ASTM D1894 | kinetic | 0.38 | 0.38 |
| THERMAL | | | | | |
| Shrinkage (120°C/5min) | (MD) | JPFTM | % | 3.5 | 3.5 |
| | (TD) | JPFTM | % | 1.5 | 1.5 |
| SURFACE | | | | | |
| Treatment level | | ASTM D2578 | Dyne/cm | 38 | 38 |
| BARRIER | | | | | |
| Water Vapour Transmission Rate (38°C & 90% RH) | | ASTM E398 | g/m ² /day | 5.5 | 4.5 |
| Oxygen Gas Transmission Rate (23°C & 0% RH) | | ASTM D3985 | cc/m ² /day | 1750 | 1600 |
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| TECHNICAL DATA | | | | | |
|---|----------|-------------|------------------------|------------|------|
| PROPERTIES | | TEST METHOD | UNIT | 8 to 50 N1 | |
| PHYSICAL | | | | | |
| Thickness | | ASTM D374 | Micron | 30 | 35 |
| Yield | | JPFTM | m ² /kg | 36.6 | 31.4 |
| Grammage | | JPFTM | gm/m ² | 27.3 | 31.8 |
| OPTICAL | | | | | |
| Haze (Max) | | ASTM D1003 | % | 2.2 | 2.2 |
| Gloss at 45° | | ASTM D2457 | - | 92 | 92 |
| MECHANICAL | | | | | |
| Tensile Strength | (MD) Min | ASTM D882 | kg/cm ² | 1300 | 1300 |
| | (TD) Min | ASTM D882 | kg/cm ² | 2800 | 2800 |
| Elongation | (MD) | ASTM D882 | % | 190 | 190 |
| | (TD) | ASTM D882 | % | 65 | 65 |
| COF Max (Untreated or lower tr/Untreated or lower tr) | | ASTM D1894 | kinetic | 0.38 | 0.38 |
| THERMAL | | | | | |
| Shrinkage (120°C/5min) | (MD) | JPFTM | % | 3.5 | 3.5 |
| | (TD) | JPFTM | % | 1.5 | 1.5 |
| SURFACE | | | | | |
| Treatment level | | ASTM D2578 | Dyne/cm | 38 | 38 |
| BARRIER | | | | | |
| Water Vapour Transmission Rate (38°C & 90% RH) | | ASTM E398 | g/m ² /day | 3 | 2.7 |
| Oxygen Gas Transmission Rate (23°C & 0% RH) | | ASTM D3985 | cc/m ² /day | 1500 | 1350 |
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| TECHNICAL DATA | | | | |
|---|----------|-------------|------------------------|------------|
| PROPERTIES | | TEST METHOD | UNIT | 8 to 50 N1 |
| PHYSICAL | | | | |
| Thickness | | ASTM D374 | Micron | 40 45 |
| Yield | | JPFTM | m ² /kg | 27.4 24.4 |
| Grammage | | JPFTM | gm/m ² | 36.4 41.0 |
| OPTICAL | | | | |
| Haze (Max) | | ASTM D1003 | % | 2.2 2.2 |
| Gloss at 45° | | ASTM D2457 | - | 92 92 |
| MECHANICAL | | | | |
| Tensile Strength | (MD) Min | ASTM D882 | kg/cm ² | 1300 1300 |
| | (TD) Min | ASTM D882 | kg/cm ² | 2800 2800 |
| Elongation | (MD) | ASTM D882 | % | 190 190 |
| | (TD) | ASTM D882 | % | 65 65 |
| COF Max (Untreated or lower tr/Untreated or lower tr) | | ASTM D1894 | kinetic | 0.38 0.38 |
| THERMAL | | | | |
| Shrinkage (120°C/5min) | (MD) | JPFTM | % | 3.5 3.5 |
| | (TD) | JPFTM | % | 1.5 1.5 |
| SURFACE | | | | |
| Treatment level | | ASTM D2578 | Dyne/cm | 38 38 |
| BARRIER | | | | |
| Water Vapour Transmission Rate (38°C & 90% RH) | | ASTM E398 | g/m ² /day | 2.5 2.3 |
| Oxygen Gas Transmission Rate (23°C & 0% RH) | | ASTM D3985 | cc/m ² /day | 1250 1150 |
| 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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