



HEAD OFFICE:

Plot No. 2, Sector B1, Local Shopping Complex, Vasant Kunj, New Delhi - 110070
Phone No : +91 11 26139256 - 265
Fax No : +91 11 26125739

WORKS :

28 - KM, Stone, Nashik - Igatpuri Road, Village : Mundegaon, Maharashtra
Phone : + 91 2553 229100
Fax : + 91 2553 229200

TECHNICAL DATA SHEET OPP FILMS

N2 -MT

STRUCTURAL CONFIGURATION



-- CORONA TREATED MATTE SKIN
-- MODIFIED TRANSPARENT CORE
-- CORONA TREATED GLOSSY SKIN

APPLICATIONS:

Lamination of Printed Paper Boards / Posters / Book Covers Etc. Where Excellent Matte Appearance is required

DESCRIPTION:

One Side Matte, Other Side Glossy, Both Side Corona Treated OPP Film with excellent contact clarity, slip and antistatic properties for use in Paper / Paper Board Lamination Application. Matte side is specifically designed for very high anchorage of radiation curable printing (UV / IR Curable Printing), which is done as a post lamination process on requirements. Glossy side is also designed for very high anchorage of various lamination adhesives. Lamination always has to be carried out on glossy side.

SALIENT FEATURES:

- Excellent Matte Appearance
- Excellent Contact Clarity
- Very Good Slip and Antistatic Properties
- Matte Side is Specially Design for Very Good Anchoring of UV Curable Inks and Coatings
- Excellent Anchorage of Lamination Adhesive on Treated Glossy Side
- Excellent Machinability
- Suitable for Various Lamination Machines

| TECHNICAL DATA | | | | | |
|---|----------|-------------|------------------------|-----------------|-------|
| PROPERTIES | | TEST METHOD | UNIT | 12 TO 25 N2 -MT | |
| PHYSICAL | | | | | |
| Thickness | | ASTM D374 | Micron | 12 | 13 |
| Yield | | JPFTM | m ² /kg | 96.34 | 88.93 |
| Grammage | | JPFTM | gm/m ² | 10.38 | 11.25 |
| OPTICAL | | | | | |
| Haze (Max) | | ASTM D1003 | % | 80 | 80 |
| Gloss at 45° | | ASTM D2457 | - | 9 | 9 |
| MECHANICAL | | | | | |
| Tensile Strength | (MD) Min | ASTM D882 | kg/cm ² | 1150 | 1150 |
| | (TD) Min | ASTM D882 | kg/cm ² | 2400 | 2400 |
| Elongation | (MD) | ASTM D882 | % | 180 | 180 |
| | (TD) | ASTM D882 | % | 55 | 55 |
| COF Max (Untreated or lower tr/Untreated or lower tr) | | ASTM D1894 | kinetic | 0.32 | 0.32 |
| 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 | 10.8 | 10.0 |
| Oxygen Gas Transmission Rate (23°C & 0% RH) | | ASTM D3985 | cc/m ² /day | 2275 | 2100 |
| 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 | 12 TO 25 N2 -MT | |
| PHYSICAL | | | | | |
| Thickness | | ASTM D374 | Micron | 15 | 18 |
| Yield | | JPFTM | m ² /kg | 77.07 | 64.23 |
| Grammage | | JPFTM | gm/m ² | 12.98 | 15.57 |
| OPTICAL | | | | | |
| Haze (Max) | | ASTM D1003 | % | 80 | 80 |
| Gloss at 45° | | ASTM D2457 | - | 9 | 9 |
| MECHANICAL | | | | | |
| Tensile Strength | (MD) Min | ASTM D882 | kg/cm ² | 1150 | 1150 |
| | (TD) Min | ASTM D882 | kg/cm ² | 2400 | 2400 |
| Elongation | (MD) | ASTM D882 | % | 180 | 180 |
| | (TD) | ASTM D882 | % | 55 | 55 |
| COF Max (Untreated or lower tr/Untreated or lower tr) | | ASTM D1894 | kinetic | 0.32 | 0.32 |
| 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 | 7.0 |
| Oxygen Gas Transmission Rate (23°C & 0% RH) | | ASTM D3985 | cc/m ² /day | 1850 | 1800 |
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| TECHNICAL DATA | | | | |
|---|----------|-------------|------------------------|-----------------|
| PROPERTIES | | TEST METHOD | UNIT | 12 TO 25 N2 -MT |
| PHYSICAL | | | | |
| Thickness | | ASTM D374 | Micron | 20 25 |
| Yield | | JPFTM | m ² /kg | 57.80 46.24 |
| Grammage | | JPFTM | gm/m ² | 17.30 21.63 |
| OPTICAL | | | | |
| Haze (Max) | | ASTM D1003 | % | 80 80 |
| Gloss at 45° | | ASTM D2457 | - | 9 9 |
| MECHANICAL | | | | |
| Tensile Strength | (MD) Min | ASTM D882 | kg/cm ² | 1150 1150 |
| | (TD) Min | ASTM D882 | kg/cm ² | 2400 2400 |
| Elongation | (MD) | ASTM D882 | % | 180 180 |
| | (TD) | ASTM D882 | % | 55 55 |
| COF Max (Untreated or lower tr/Untreated or lower tr) | | ASTM D1894 | kinetic | 0.32 0.32 |
| 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 | 6.5 6.0 |
| Oxygen Gas Transmission Rate (23°C & 0% RH) | | ASTM D3985 | cc/m ² /day | 1620 1400 |
| 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

WORKS: 28 - KM, Stone, Nasik - Igatpuri Road,
Village : Mundegaon, Maharashtra
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Fax: + 91 2553 231004