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# TECHNICAL DATA SHEET
# OPP FILMS

**TRANSPARENT NON HEAT SEALABLE BOTH SIDE CORONA TREATED METALLISABLE**

**JS15/18/20/25/30N2-MZ**

**STRUCTURAL CONFIGURATION**

-- CORONA TREATED METAL RECEPTIVE SKIN
-- MODIFIED TRANSPARENT INNER SKIN
-- TRANSPARENT CORE
-- MODIFIED TRANSPARENT INNER SKIN
-- CORONA TREATED NON HEAT SEALABLE SKIN

**APPLICATIONS :**

NON HEAT SEALABLE BOTH SIDE TREATED BASE FILM FOR ALUMINIUM VACUUM METALLISATION

**DESCRIPTION :**

Transparent, Heat Sealable, Both Side Corona Treated OPP Base Film for Vacuum Metalisation Application. One side is corona treated and specifically designed with metal receptive material for excellent adhesion of aluminium on the surface during metallisation. Other side is corona treated and specifically designed for excellent anchorage of lamination adhesive for three-ply lamination structure.

**SALIENT FEATURES :**

- High Surface Gloss and Transparency
- Excellent Surface Treatment Retention
- Excellent Adhesion of Aluminium on Metal Receptive Treated Side
- Excellent Anchorage of Lamination Adhesive on Non Metallisable Treated Side
- Excellent Machinability
- Excellent Mechanical Properties
- Excellent Dimensional Stability

# TECHNICAL DATA SHEET

## TECHNICAL DATA

| PROPERTIES | TEST METHOD | UNIT | JS15N2-MZ | JS18N2-MZ | JS20N2-MZ | JS25N2-MZ | JS30N2-MZ |
|---|---|---|---|---|---|---|---|
| **PHYSICAL** | | | | | | | |
| Thickness | ASTM D 374 | Micron | 15 | 18 | 20 | 25 | 30 |
| Grammage | JPFTM | gm/m$^2$ | 13.5 | 16.4 | 18.2 | 22.7 | 27.3 |
| Yield | JPFTM | m$^2$/kg | 74.0 | 60.9 | 55.0 | 44.0 | 36.6 |
| **SURFACE** | | | | | | | |
| Treatment Level<br>Metal Receptive Side / Non Metallisable Side | ASTM D 2578 | dyne/cm | 39 / 38 | 39 / 38 | 39 / 38 | 39 / 38 | 39 / 38 |
| **OPTICAL** | | | | | | | |
| Haze | ASTM D 1003 | % | 2.0 | 2.1 | 2.1 | 2.1 | 2.2 |
| Gloss<br>at 45$^0$Angle | ASTM D 2457 | - | 92 | 92 | 92 | 92 | 92 |
| **MECHANICAL** | | | | | | | |
| Coefficient of Friction – Max.<br>(Untreated / Untreated) | ASTM D 1894 | Kinetic | 0.48 | 0.48 | 0.48 | 0.48 | 0.48 |
| Tensile Strength | ASTM D 882 | kg/cm$^2$ MD | 1275 | 1275 | 1275 | 1275 | 1275 |
| | | kg/cm$^2$ TD | 2700 | 2700 | 2700 | 2700 | 2700 |
| Modulus | ASTM D 882 | kg/cm$^2$ MD | 18000 | 18000 | 18000 | 18000 | 18000 |
| | | kg/cm$^2$ TD | 28000 | 28000 | 28000 | 28000 | 28000 |
| Elongation | ASTM D 882 | % MD | 190 | 190 | 190 | 190 | 190 |
| | | % TD | 70 | 70 | 70 | 70 | 70 |
| **THERMAL** | | | | | | | |
| Shrinkage<br>at 120$^0$C / 5 min | JPFTM | % MD | 4.0 | 3.5 | 3.5 | 3.5 | 3.5 |
| | | % TD | 2.0 | 1.5 | 1.5 | 1.5 | 1.5 |
| Seal Initiation Temperature | JPFTM | $^0$C | - | - | - | - | - |
| Sealing Strength<br>at 120$^0$C / 2 Bar | JPFTM | gms/25mm | - | - | - | - | - |
| **BARRIER** | | | | | | | |
| Water Vapour Transmission Rate | ASTM E 398 | gm/m$^2$/24h | 7.5 | 6.5 | 6.0 | 5.0 | 4.0 |
| Oxygen Gas Transmission Rate | ASTM D 3985 | cc/m$^2$/24h | 2050 | 1850 | 1800 | 1700 | 1600 |

The values provided in the Technical Data Sheet are typical performance data and are believed to be accurate. These are given in good faith, but users are advised to conduct their own tests on representative samples and not on the actual product dispatched. JINDAL POLY FILMS LIMITED doesn't guarantee or warranty typical values and fitness for its use for a specific purpose. The user is solely responsible for all determinations by the application of this information or the safety and suitability of our products, either alone or in combination with other products.

**Storage & Handling:**
It is a fact that dyne level decays over time in BOPP films and the decay is further aggravated with extreme environmental conditions. If film rolls are to be stored for a long time, it is preferable to maintain a constant, preferably low temperature (below 30°C) and a low humidity (below 70% RH) to maximize shelf life of the product & to minimize dyne level decay.

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