

**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

**Website : [www.jindalpoly.com](http://www.jindalpoly.com)**

**TECHNICAL DATA SHEET  
 OPP FILMS**

**HIGH BARRIER WHITE CAVITATED ONE SIDE METALLISED OTHER SIDE HEAT SEALABLE**

**JS25/30/35/38/40/50H1-PDB**

**STRUCTURAL CONFIGURATION**



- PLASMA TREATED HIGH BARRIER METALLISED SKIN
- MODIFIED INNER SKIN
- MODIFIED WHITE CAVITATED CORE
- MODIFIED INNER SKIN
- UNTREATED LOW HEAT SEALABLE SKIN

**APPLICATIONS :**

HIGH BARRIER WHITE CAVITATED HEAT SEALABLE METALLISED FILM FOR SINGLE / TWO PLY PRINTING LAMINATION APPLICATION (FOR ICE CREAM PACKAGING, LABELS, HIGH VALUE FOOD PACKAGING ETC).

**DESCRIPTION :**

High Barrier White Cavitated One Side Metallised, Other Side Heat Sealable OPP Film for use in Single / Two Ply Packaging Structure. The film exhibits very high water vapour and gas barrier properties. During metallisation process film is treated with plasma for improving metal adhesion and barrier properties. Metallised side is specifically designed for excellent surface treatment retention behaviour as well as very good anchorage with Inks and lamination adhesives. The untreated heat sealable side exhibits excellent hot-tack and seal strength.

**SALIENT FEATURES :**

- Very High Water Vapour and Gas Barrier Properties
- Excellent Opacity
- One Side Brilliant Pearlicent White Appearance and Other Side Brilliant Metallic Lustre
- Very High Surface Gloss
- Low Seal Initiation Temperature
- Excellent Hot Tack and Heat Seal Strength
- Excellent Surface Treatment Retention on Metallised Side
- Excellent Anchorage of Inks and Lamination Adhesive on Metallised Side
- Excellent Machinability
- Suitable for Various Printing / Lamination Machines

| TECHNICAL DATA                                  |             |                        |            |            |            |            |            |            |
|---|-------------|------------------------|------------|------------|------------|------------|------------|------------|
| PROPERTIES                                      | TEST METHOD | UNIT                   | JS25H1-PDB | JS30H1-PDB | JS35H1-PDB | JS38H1-PDB | JS40H1-PDB | JS50H1-PDB |
| <b>PHYSICAL</b>                                 |             |                        |            |            |            |            |            |            |
| Thickness                                       | ASTM D 374  | Micron                 | 25         | 30         | 35         | 38         | 40         | 50         |
| Grammage  | JPFTM       | gm/m <sup>2</sup>      | 17.5       | 21.0       | 24.5       | 26.6       | 28.0       | 35.0       |
| Yield   | JPFTM       | m <sup>2</sup> /kg     | 57.1       | 47.6       | 40.8       | 37.6       | 35.5       | 28.5       |
| <b>SURFACE</b>                                  |             |                        |            |            |            |            |            |            |
| Treatment Level – Metallised Side (Min)         | ASTM D 2578 | dyne/cm                | 38         | 38         | 38         | 38         | 38         | 38         |
| <b>OPTICAL</b>                                  |             |                        |            |            |            |            |            |            |
| Opacity (Min)                                   | CIE         | %                      | 80         | 85         | 90         | 90         | 95         | 95         |
| Optical Density                                 | -           | -                      | 3.2        | 3.3        | 3.4        | 3.4        | 3.6        | 3.6        |
| Gloss (Min) at 45° Angle                        | ASTM D 2457 | -                      | 55         | 55         | 55         | 50         | 50         | 50         |
| <b>MECHANICAL</b>                               |             |                        |            |            |            |            |            |            |
| Coefficient of Friction (Max)                   | ASTM D 1894 | Static                 | 0.40       | 0.40       | 0.40       | 0.40       | 0.40       | 0.40       |
|   |             | Kinetic                | 0.38       | 0.38       | 0.38       | 0.38       | 0.38       | 0.38       |
| Tensile Strength (Min)                          | ASTM D 882  | kg/cm <sup>2</sup> MD  | 1000       | 1000       | 1000       | 1000       | 1000       | 1000       |
|   |             | TD                     | 2000       | 2000       | 2000       | 2000       | 2000       | 2000       |
| Modulus (Min)                                   | ASTM D 882  | kg/cm <sup>2</sup> MD  | 15000      | 15000      | 15000      | 15000      | 15000      | 15000      |
|   |             | TD                     | 25000      | 25000      | 25000      | 25000      | 25000      | 25000      |
| Elongation (Max)                                | ASTM D 882  | % MD                   | 160        | 160        | 160        | 150        | 150        | 150        |
|   |             | TD                     | 60         | 60         | 60         | 50         | 50         | 50         |
| <b>THERMAL</b>                                  |             |                        |            |            |            |            |            |            |
| Shrinkage (Max) at 120°C / 5 min                | JPFTM       | % MD                   | 3.5        | 3.5        | 3.5        | 3.5        | 3.5        | 3.5        |
|   |             | TD                     | 1.5        | 1.5        | 1.5        | 1.5        | 1.5        | 1.5        |
| Seal Initiation Temperature (Max)               | JPFTM       | °C                     | 110        | 110        | 110        | 110        | 110        | 110        |
| Sealing Strength (Min) at 120°C / 2 Bar / 1 Sec | JPFTM       | gms/25mm               | 400        | 400        | 400        | 400        | 400        | 400        |
| <b>BARRIER</b>                                  |             |                        |            |            |            |            |            |            |
| Water Vapour Transmission Rate                  | ASTM E 398  | gm/m <sup>2</sup> /24h | 0.23       | 0.18       | 0.13       | 0.10       | 0.08       | 0.05       |
| Oxygen Gas Transmission Rate                    | ASTM D 3985 | cc/m <sup>2</sup> /24h | 35         | 30         | 25         | 23         | 20         | 15         |

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 accept any responsibility for the fitness of the product for any particular use.