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K-DESIGN

Aakash
Polyfilms Limited


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**FACTORY**

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Gujarat, India

**UNIT-2** | Plot No. 772/P,
GIDC Industrial Estate,
Jhagadia Dist., Bharuch - 393 110
Gujarat, India


Aakash
Polyfilms Limited

## OUR PRODUCTS

CPP FILM
BOPP FILM
METALIZED CPP FILM
METALIZED BOPP FILM

# COMPANY PROFILE

Aakash Polyfilms Ltd. has been an integral part of the Indian flexible packaging industry for more than three decades.

Aakash Polyfilms Ltd. has its two manufacturing units, Unit-1 is located at GIDC Sachin, Surat (Gujarat) and has been involved in the manufacturing of Clear & Metallizing CPP films and Unit-2 is located at Jhagadia, Ankleshwar (Gujarat) for manufacturing of BOPP films.

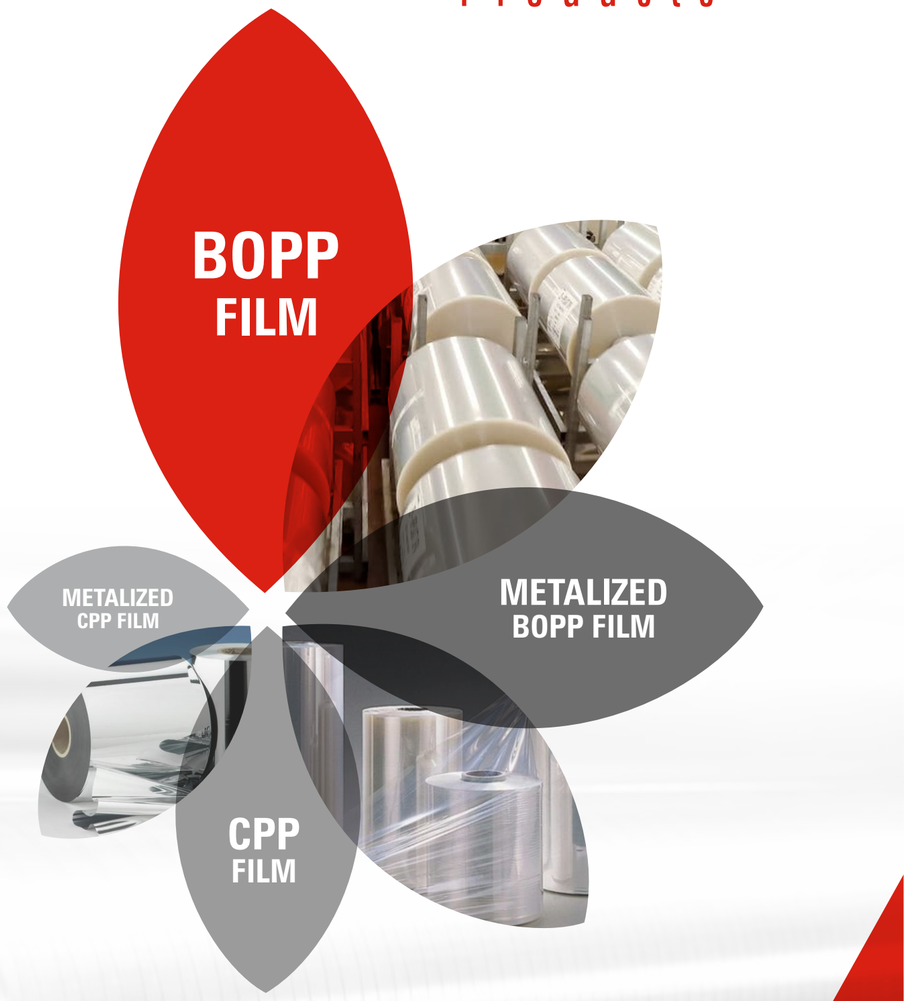
Unit-1 has two modern metallizers with operating widths of 2450 mm & 1650 mm to manufacture a wide range of metallized films like BOPP and CPP. The metallizers have been supplied by world leader Galileo is equipped to produce 4000 TPA of high quality metallizing films.

Along with the metallizing plants, we have European CPP film production line of 2100 mm wide to cater the ever growing demand for CPP films. A BOPP film production line of 6500 mm width from world leader M/s.Bruckner Germany to cater both at Domestic as well as International markets.

The CPP film line is capacitated to produce 3500 TPA of prime quality films in thickness range of 18 to 50 microns and BOPP film line is capacitated to produce 12000 TPA of prime quality films in thickness range of 12 to 50 microns.

We are currently supplying to leading converters in Domestic and International market.

# POLY FILMS Products




THE COMPLETE **2020** PACKAGING SOLUTION.

Polypropylene film or PP is a low density plastic film. The most important types of PP are Cast Polypropylene (CPP) and Bi-axially Oriented Polypropylene (BOPP). Aakash Polyfilms offer both these types of films. While BOPP is a more commonly known polypropylene film, the use of CPP in the food, pharmaceutical, flower, textiles and several other industries are consistently gaining popularity.

## Some of the differences between CPP and BOPP are listed below for better understanding:

- CPP is a soft film like polyethylene, whereas BOPP is a bit stiff and crinkly.
- CPP does not dead-fold well due to its natural living hinge, whereas BOPP has better dead-fold characteristics.
- CPP can be ultrasonically or thermally sealed without the use of any specialty coatings, whereas BOPP does not heat seal well without the use of specialty heat seal coatings.
- BOPP films have better barrier properties, While CPP has better barrier properties as compared to polyethylene and PVC films.

## Cast polypropylene - CPP

CPP has a higher tear and impact resistance, and better cold temperature performance and heat-sealing properties as compare to BOPP. There are various type of CPP films like general CPP, Metalized CPP, Pearlised CPP and several other applications depending on the requirement and end application.

## Some of the major benefits of CPP are listed below:

- Excellent heat seal strength, high puncture and tear resistance.
- Excellent packaging integrity at extreme temperatures and high heat resistance.
- No impact on the coefficient of friction (COF) control.
- High yield per unit area and low specific weight.
- Offers good moisture barrier.
- High transparency.

## BOPP: THE INVENTION THAT CHANGED THE FACE OF FLEXIBLE PACKAGING

Low density, exceptional optical, mechanical and barrier properties have made Biaxial Oriented Polyprophlene (BOPP) the preferred choice for a variety of flexible packaging applications. BOPP films are produced by stretching Polypropylene film in both machine direction and transverse direction.

## THE NEW-AGE FEATURES OF BOPP FILMS MEET SEVERAL KEY REQUIREMENTS:

- High barrier properties.
- The range of customized sealing.
- Shelf appeal.
- Food contact safety.
- Mechanical strength.
- Ease of use.
- Machinability.
- High linear speed.

BOPP is a technology-driven link in the packaging Industry. It has applications across industries that require special features in flexible packaging. It delivers post-harvest conservation, nutrient preservation, damage-free distribution, shelf appeal and other industry specific advantages.

Our Products, Our Excellence.


CPP
FILMS

# BOPP FILMS

## APPLICATIONS

Pressure sensitive adhesive tape grade.

## DESCRIPTION

Transparent, non heat sealable, one side corona treated, high glossy OPP film for use in pressure sensitive adhesive tape manufacturing application. The corona treated surface is specifically designed for excellent anchorage of various solvent and water based pressure sensitive adhesive used for self adhesive tape manufacturing. Untreated side is back treatment free, which facilitate the trouble free unwinding of adhesive coated jumbo rolls.

## KEY FEATURES

- High surface gloss.
- Excellent Surface Treatment Retention.
- Excellent anchorage of various pressure sensitive adhesives on treated side.
- Back treatment free.
- Excellent machinability.
- Excellent mechanical properties.
- Excellent dimensional stability.


BOPP FILMS

# TECHNICAL DATA SHEET

| PROPERTIES | TEST METHOD | UNIT | A21N1-TP | A23N1-TP | A25N1-TP | A29N1-TP |
|---|---|---|---|---|---|---|
| **Physical** | | | | | | |
| Thickness | ASTM D 374 | Micron | 21 | 23 | 25 | 29 |
| Grammage | ATM | $gm/m^2$ | 19.11 | 20.93 | 22.75 | 26.39 |
| Yield | ATM | $m^2/kg$ | 52.3 | 47.7 | 43.9 | 37.9 |
| **Surface** | | | | | | |
| Treatment Level (Min) | ASTM D 2578 | dyne/cm | 38 | 38 | 38 | 38 |
| **Optical** | | | | | | |
| Haze (Max) | ASTM D 1003 | % | 2.2 | 2.2 | 2.2 | 2.2 |
| Gloss (Min) at $45^0$ Angle | ASTM D 2457 | - | 95 | 95 | 95 | 95 |
| **Mechanical** | | | | | | |
| Coefficient of Friction (Max) | ASTM D 1894 | Static<br>Kinetic | 0.50<br>0.45 | 0.50<br>0.45 | 0.50<br>0.45 | 0.50<br>0.45 |
| Tensile Strength (Min) | ASTM D 882 | $kg/cm^2$ MD<br>TD | 1300<br>2600 | 1300<br>2600 | 1300<br>2600 | 1300<br>2600 |
| Modulus (Min) | ASTM D 882 | $kg/cm^2$ MD<br>TD | 18000<br>28000 | 18000<br>28000 | 18000<br>28000 | 18000<br>28000 |
| Elongation (Max) | ASTM D 882 | % MD<br>TD | 170<br>60 | 170<br>60 | 170<br>60 | 170<br>60 |
| **Thermal** | | | | | | |
| Shrinkage (Max) at $120^0C$ / 5 min | ATM | % MD<br>TD | 3-4<br>2-3 | 3-4<br>2-3 | 3-4<br>2-3 | 3-4<br>2-3 |
| Seal Initiation Temperature (Max) | ATM | $^0C$ | - | - | - | - |
| Sealing Strength (Min) at $120^0C$ / 2 Bar | ATM | gms/25mm | - | - | - | - |
| **Barrier** | | | | | | |
| Water Vapour Transmission Rate | ASTM E 398 | $gm/m^2/24h$ | - | - | - | - |
| Oxygen Gas Transmission Rate | ASTM E 3985 | $cc/m^2/24h$ | - | - | - | - |

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. AAKASH 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.

Storage & Handling : Temperature should preferably be less than $30^{\circ}C$ & Humidity $55 \pm 5\%$ in storage area and material should be consumed with three month of receipt.
ATM : Aakash Test Method, MD : Machine Direction,TD :Transverse Direction

# TRANSPARENT BOPP
# HEAT SEALABLE

## APPLICATIONS

Transparent, both side heat sealable one side corona treated film for single or two ply printing lamination applications.

## DESCRIPTION

Transparent, both side heat sealable, one side corona treated OPP film with excellent barrier, clarity, slip and antistatic properties for single or two ply printing laminate application. The corona treated side is specifically designed for excellent adhesion of inks and lamination adhesive during conversion. Both the sides exhibit excellent seal strength.

## KEY FEATURES

- Excellent seal strength on both sides.
- High surface gloss and transparency.
- Very good barrier properties.
- Excellent slip and antistatic properties.
- Excellent surface treatment retention.
- Excellent adhesion of inks and adhesive on treated side.
- Excellent machinability.
- Excellent mechanical properties.
- Excellent dimensional stability.



## TECHNICAL DATA SHEET

| PROPERTIES | TEST METHOD | UNIT | A18H1 | A20H1 | A25H1 | A30H1 | A35H1 | A40H1 |
|---|---|---|---|---|---|---|---|---|
| **Physical** | | | | | | | | |
| Thickness | ASTM D 374 | Micron | 18 | 20 | 25 | 30 | 35 | 40 |
| Grammage | ATM | $gm/m^2$ | 16.38 | 18.2 | 22.75 | 27.3 | 31.85 | 36.4 |
| Yield | ATM | $m^2/kg$ | 61.0 | 55.0 | 44.0 | 36.6 | 31.4 | 27.4 |
| **Surface** | | | | | | | | |
| Treatment Level (Min) | ASTM D 2578 | dyne/cm | 40 | 40 | 40 | 40 | 40 | 40 |
| **Optical** | | | | | | | | |
| Haze (Max) | ASTM D 1003 | % | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Gloss (Min) at $45^0$ Angle | ASTM D 2457 | - | 95 | 95 | 90 | 90 | 90 | 90 |
| **Mechanical** | | | | | | | | |
| Coefficient of Friction (Max) | ASTM D 1894 | Static<br>Kinetic | 0.50<br>0.40 | 0.50<br>0.40 | 0.50<br>0.40 | 0.50<br>0.40 | 0.50<br>0.40 | 0.50<br>0.40 |
| Tensile Strength (Min) | ASTM D 882 | $kg/cm^2$ MD<br>TD | 1300<br>2700 | 1300<br>2700 | 1300<br>2800 | 1300<br>2800 | 1300<br>2800 | 1300<br>2800 |
| Modulus (Min) | ASTM D 882 | $kg/cm^2$ MD<br>TD | 18000<br>28000 | 18000<br>28000 | 18000<br>28000 | 18000<br>29000 | 18000<br>29000 | 18000<br>29000 |
| Elongation (Max) | ASTM D 882 | % MD<br>TD | 180<br>60 | 180<br>60 | 180<br>60 | 180<br>60 | 180<br>60 | 180<br>60 |
| **Thermal** | | | | | | | | |
| Shrinkage (Max) at $120^0C$ / 5 min | ATM | % MD<br>TD | 3-4<br>2-3 | 3-4<br>2-3 | 3-4<br>2-3 | 3-4<br>2-3 | 3-4<br>2-3 | 3-4<br>2-3 |
| Seal Initiation Temperature (Max) 2 Bar / 1 Sec | ATM | $^0C$ | 115-120 | 115-120 | 115-120 | 115-120 | 115-120 | 115-120 |
| Sealing Strength (Min) at $120^0C$ / 2 Bar / 1 Sec | ATM | gms/25mm | 300 | 300 | 300 | 300 | 300 | 300 |
| **Barrier** | | | | | | | | |
| Water Vapour Transmission Rate | ASTM E 398 | $gm/m^2/24h$ | 6.5 | 6.0 | 6.0 | 5.5 | 5.5 | 5.0 |
| Oxygen Gas Transmission Rate | ASTM D 3985 | $cc/m^2/24h$ | 1850 | 1800 | 1700 | 1700 | 1600 | 1500 |

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Storage & Handling : Temperature should preferably be less than $30^{\circ}C$ & Humidity $55 \pm 5\%$ in storage area and material should be consumed with three month of receipt.
ATM : Aakash Test Method, MD : Machine Direction,TD :Transverse Direction

# TRANSPARENT BOPP
## NON HEAT SEALABLE ONE SIDE TREATED

TRANSPARENT BOPP
NON HEAT SEALABLE ONESIDE TREATED

# TECHNICAL DATA SHEET

## APPLICATIONS

Reverse printing and lamination for packaging applications, lamination of printed paper boards / posters / book covers etc.

## 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.

## KEY 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.

*Available in Inside / Outside Corona treated, as per the requirement of the customer


| PROPERTIES | TEST METHOD | UNIT | A10N1 | A12N1 | A15N1 | A18N1 | A20N1 | A25N1 | A30N1 |
|---|---|---|---|---|---|---|---|---|---|
| **Physical** | | | | | | | | | |
| Thickness | ASTM D 374 | Micron | 10 | 12 | 15 | 18 | 20 | 25 | 30 |
| Grammage | ATM | $gm/m^2$ | 9.1 | 10.9 | 13.7 | 16.4 | 18.2 | 22.7 | 27.3 |
| Yield | ATM | $m^2/kg$ | 109.9 | 91.7 | 73.0 | 60.9 | 54.9 | 44.0 | 36.6 |
| **Surface** | | | | | | | | | |
| Treatment Level (Min) | ASTM D 2578 | dyne/cm | 38 | 38 | 38 | 38 | 38 | 38 | 38 |
| **Optical** | | | | | | | | | |
| Haze (Max) | ASTM D 1003 | % | 1.5-2.0 | 1.5-2.0 | 1.5-2.0 | 1.5-2.0 | 1.5-2.0 | 1.5-2.0 | 1.5-2.0 |
| Gloss (Min) at $45^0$ Angle | ASTM D 2457 | - | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| **Mechanical** | | | | | | | | | |
| Coefficient of Friction (Max) | ASTM D 1894 | Static | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| | | Kinetic | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 |
| Tensile Strength (Min) | ASTM D 882 | $kg/cm^2$ MD | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 |
| | | TD | 2600 | 2600 | 2650 | 2650 | 2650 | 2700 | 2700 |
| Modulus (Min) | ASTM D 882 | $kg/cm^2$ MD | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 |
| | | TD | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 |
| Elongation (Max) | ASTM D 882 | % MD | 170 | 170 | 170 | 170 | 170 | 170 | 170 |
| | | TD | 70 | 70 | 60 | 60 | 60 | 60 | 60 |
| **Thermal** | | | | | | | | | |
| Shrinkage (Max) at $120^0C$ / 5 min | ATM | % MD | 3-5 | 3-5 | 3-5 | 3-4 | 3-4 | 3-4 | 3-4 |
| | | TD | 2.5 | 2.5 | 2.8 | 2.5 | 2.5 | 2.5 | 2.5 |
| Seal Initiation Temperature (Max) | ATM | $^0C$ | - | - | - | - | - | - | - |
| Sealing Strength (Min) at $120^0C$ / 2 Bar / 1 Sec | ATM | gms/25mm | - | - | - | - | - | - | - |
| **Barrier** | | | | | | | | | |
| Water Vapour Transmission Rate | ASTM E 398 | $gm/m^2/24h$ | 9.0 | 8.5 | 7.5 | 6.5 | 5.5 | 4.5 | 3.0 |
| Oxygen Gas Transmission Rate | ASTM E 3985 | $cc/m^2/24h$ | 2350 | 2250 | 2250 | 2200 | 2200 | 2150 | 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. AAKASH 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.

Storage & Handling : Temperature should preferably be less than $30^{\circ}C$ & Humidity $55 \pm 5\%$ in storage area and material should be consumed with three month of receipt.
ATM : Aakash Test Method, MD : Machine Direction,TD :Transverse Direction

# TRANSPARENT BOPP
## NON HEAT SEALABLE
## BOTH SIDE TREATED

## APPLICATIONS

Non heat sealable both side treated base film for aluminium vaccum metallization.

## DESCRIPTION

Transparent, non heat sealable, both side corona treated OPP base film For vacuum metallization application. One side is corona treated and specifically designed with metal receptive material for excellent adhesion of aluminium on the surface during metallization. Other side is corona treated and specifically designed for excellent anchorage of lamination adhesive for three ply lamination structure.

## KEY 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 metallizable treated side.
- Excellent machinability.
- Excellent mechanical properties.
- Excellent dimensional stability.


TRANSPARENT BOPP
NON HEAT SEALABLE BOTHSIDE TREATED

# TECHNICAL DATA SHEET

| PROPERTIES | TEST METHOD | UNIT | A15N2-MD | A18N2-MD | A20N2-MD | A25N2-MD | A30N2-MD |
|---|---|---|---|---|---|---|---|
| **Physical** | | | | | | | |
| Thickness | ASTM D 374 | Micron | 15 | 18 | 20 | 25 | 30 |
| Grammage | ATM | $gm/m^2$ | 13.65 | 16.38 | 18.2 | 22.75 | 27.3 |
| Yield | ATM | $m^2/kg$ | 73.2 | 61.3 | 55.0 | 44.0 | 36.6 |
| **Surface** | | | | | | | |
| Treatment Level (Min) Metal Receptive Side / Non Metallisable Side | ASTM D 2578 | dyne/cm | 40 / 38 | 40 / 38 | 40 / 38 | 40 / 38 | 40 / 38 |
| **Optical** | | | | | | | |
| Haze (Max) | ASTM D 1003 | % | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| Gloss (Min) at $45^0$ Angle | ASTM D 2457 | - | 90 | 90 | 90 | 90 | 90 |
| **Mechanical** | | | | | | | |
| Coefficient of Friction (Max) | ASTM D 1894 | Static | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 |
| | | Kinetic | 0.45 | 0.45 | 0.45 | 0.45 | 0.45 |
| Tensile Strength (Min) | ASTM D 882 | $kg/cm^2$ MD | 1300 | 1300 | 1300 | 1300 | 1300 |
| | | TD | 2650 | 2700 | 2700 | 2800 | 2800 |
| Modulus (Min) | ASTM D 882 | $kg/cm^2$ MD | 17000 | 17000 | 17500 | 18000 | 18000 |
| | | TD | 28000 | 28000 | 28000 | 28000 | 28000 |
| Elongation (Max) | ASTM D 882 | % MD | 170 | 170 | 170 | 170 | 170 |
| | | TD | 70 | 70 | 70 | 70 | 70 |
| **Thermal** | | | | | | | |
| Shrinkage (Max) at $120^0$C / 5 min | ATM | % MD | 4-5 | 3-4 | 3-4 | 3-4 | 3-4 |
| | | TD | 2-3 | 2-3 | 2-3 | 2-3 | 2-3 |
| Seal Initiation Temperature (Max) | ATM | $^0$C | - | - | - | - | - |
| Sealing Strength (Min) at $120^0$C / 2 Bar | ATM | gms/25mm | - | - | - | - | - |
| **Barrier** | | | | | | | |
| Water Vapour Transmission Rate | ASTM E 398 | $gm/m^2/24h$ | 8.5 | 7.5 | 6.5 | 5.5 | 5.0 |
| Oxygen Gas Transmission Rate | ASTM D 3985 | $cc/m^2/24h$ | 2250 | 2200 | 2200 | 2250 | 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. AAKASH 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.

Storage & Handling : Temperature should preferably be less than $30^{\circ}$C & Humidity 55±5% in storage area and material should be consumed with three month of receipt.
ATM : Aakash Test Method, MD : Machine Direction,TD :Transverse Direction

# METALIZED BOPP FILMS

## APPLICATIONS

Heat sealable metalized film for single or two ply packaging structure.

## DESCRIPTION

One side metallized, other side heat sealable OPP film for use in single or two ply packaging structure. The film exhibits excellent water vapour and gas barrier properties. During metallization 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 lamination adhesives. The untreated heat sealable side exhibits excellent seal strength.

## KEY FEATURES

- Excellent surface gloss on metallized side.
- Very good water vapour and gas barrier properties.
- Excellent adhesion of aluminium.
- Very good anchorage of lamination adhesive on metallized side.
- Very good metal bond Strength.
- Very good lamination Bond strength.
- Excellent machinability.
- Very good seal Strength



METALIZED BOPP FILMS

## TECHNICAL DATA SHEET

| PROPERTIES | TEST METHOD | UNIT | A15H1-MZ | A18H1-MZ | A20H1-MZ | A25H1-MZ | A30H1-MZ | A35H1-MZ |
|---|---|---|---|---|---|---|---|---|
| **Physical** | | | | | | | | |
| Thickness | ASTM D 374 | Micron | 15 | 18 | 20 | 25 | 30 | 35 |
| Grammage | ATM | $gm/m^2$ | 13.65 | 16.38 | 18.2 | 22.75 | 27.3 | 31.8 |
| Yield | ATM | $m^2/kg$ | 73.0 | 61.0 | 55.0 | 44.0 | 36.6 | 31.4 |
| **Surface** | | | | | | | | |
| Treatment Level (Min) Metallised Side | ASTM D 2578 | dyne/cm | 38 | 38 | 38 | 38 | 38 | 38 |
| **Optical** | | | | | | | | |
| Optical Density (Min) | ATM | - | 2.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| **Mechanical** | | | | | | | | |
| Coefficient of Friction (Max) | ASTM D 1894 | Static | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 |
| | | Kinetic | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 | 0.40 |
| Tensile Strength (Min) | ASTM D 882 | $kg/cm^2$ MD | 1300 | 1300 | 1300 | 1300 | 1300 | 1300 |
| | | TD | 2500 | 2600 | 2600 | 2700 | 2700 | 2700 |
| Modulus (Min) | ASTM D 882 | $kg/cm^2$ MD | 16000 | 18000 | 18000 | 18000 | 18000 | 18000 |
| | | TD | 28000 | 28000 | 28000 | 28000 | 28000 | 28000 |
| Elongation (Max) | ASTM D 882 | % MD | 180 | 180 | 180 | 180 | 180 | 180 |
| | | TD | 60 | 60 | 60 | 60 | 60 | 60 |
| **Thermal** | | | | | | | | |
| Shrinkage (Max) at 120°C / 5 min | ATM | % MD | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 | 3-4 |
| | | TD | 2-3 | 2-3 | 2-3 | 2-3 | 2-3 | 2-3 |
| Seal Initiation Temperature (Max) | ATM | °C | 115-120 | 115-120 | 115-120 | 115-120 | 115-120 | 115-120 |
| Sealing Strength (Min) at 120°C / 2 Bar / 1 Sec | ATM | gms/25mm | 300 | 300 | 300 | 300 | 300 | 300 |
| **Barrier** | | | | | | | | |
| Water Vapour Transmission Rate | ASTM E 398 | $gm/m^2/24h$ | 0.80 | 0.75 | 0.70 | 0.75 | 0.70 | 0.75 |
| Oxygen Gas Transmission Rate | ASTM E 3985 | $cc/m^2/24h$ | 90 | 80 | 75 | 68 | 58 | 40 |

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Storage & Handling : Temperature should preferably be less than 30°C & Humidity 55±5% in storage area and material should be consumed with three month of receipt.
ATM : Aakash Test Method, MD : Machine Direction,TD :Transverse Direction

# CPP FILMS

## APPLICATIONS

Printing, lamination & pouching application.

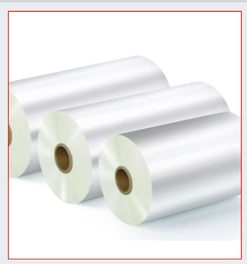
## DESCRIPTION

Transparent, both side heat sealable, one side corona treated CPP film with excellent barrier, clarity, slip and antistatic properties for single or two ply printing laminate application. The corona treated side is specifically designed for excellent adhesion of inks and lamination adhesive during conversion.

## KEY FEATURES

- Good optical properties.
- Low slip for high speed packaging.
- Excellent machinability.
- Excellent heat seal strength.





CPP FILMS

## TECHNICAL DATA SHEET

| PROPERTIES | TEST METHOD | UNIT | AC18H1 | AC20H1 | AC25H1 | AC30H1 | AC35H1 | AC40H1 |
|---|---|---|---|---|---|---|---|---|
| **Physical** | | | | | | | | |
| Thickness | ASTM D 374 | Micron | 18 | 20 | 25 | 30 | 35 | 40 |
| Grammage | ATM | $gm/m^2$ | 16.38 | 18.2 | 22.75 | 27.3 | 31.85 | 36.4 |
| Yield | ATM | $m^2/kg$ | 61.0 | 55.0 | 44.0 | 36.6 | 31.4 | 27.4 |
| **Surface** | | | | | | | | |
| Treatment Level (Min) | ASTM D 2578 | dyne/cm | 38 | 38 | 38 | 38 | 38 | 38 |
| **Optical** | | | | | | | | |
| Haze (Max) | ASTM D 1003 | % | 3.5 | 4.0 | 4.0 | 4.5 | 4.5 | 5.0 |
| Gloss (Min) at $45^0$ Angle | ASTM D 2457 | - | 80 | 80 | 80 | 75 | 70 | 70 |
| **Mechanical** | | | | | | | | |
| Coefficient of Friction (Max) | ASTM D 1894 | Static<br>Kinetic | 0.30<br>0.25 | 0.30<br>0.25 | 0.30<br>0.25 | 0.30<br>0.25 | 0.30<br>0.25 | 0.30<br>0.25 |
| Tensile Strength (Min) | ASTM D 882 | $kg/cm^2$ MD<br>TD | 500<br>220 | 500<br>220 | 500<br>220 | 500<br>210 | 500<br>210 | 500<br>200 |
| Modulus (Min) | ASTM D 882 | $kg/cm^2$ MD<br>TD | -<br>- | -<br>- | -<br>- | -<br>- | -<br>- | -<br>- |
| Elongation (Max) | ASTM D 882 | % MD<br>TD | 450<br>600 | 450<br>600 | 450<br>600 | 450<br>600 | 450<br>600 | 450<br>600 |
| **Thermal** | | | | | | | | |
| Shrinkage (Max) at $120^0C$ / 5 min | ATM | % MD<br>TD | 3.0<br>2.0 | 3.0<br>2.0 | 3.0<br>2.0 | 3.0<br>2.0 | 3.0<br>2.0 | 3.0<br>2.0 |
| Seal Initiation Temperature (Max) 2 Bar / 1 Sec | ATM | $^0C$ | 115-125 | 115-125 | 115-125 | 115-125 | 115-125 | 115-125 |
| Sealing Strength (Min) at $120^0C$ / 2 Bar / 1 Sec | ATM | gms/25mm | 600 | 600 | 600 | 600 | 600 | 600 |
| **Barrier** | | | | | | | | |
| Water Vapour Transmission Rate | ASTM E 398 | $gm/m^2/24h$ | 14 | 13 | 12 | 11 | 11 | 10 |
| Oxygen Gas Transmission Rate | ASTM E 3985 | $cc/m^2/24h$ | 3800 | 3800 | 3750 | 3700 | 3650 | 3650 |

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. AAKASH 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.

Storage & Handling : Temperature should preferably be less than $30^0C$ & Humidity $55 \pm 5\%$ in storage area and material should be consumed with three month of receipt.
ATM : Aakash Test Method, MD : Machine Direction,TD :Transverse Direction

# METALIZED
## CPP FILMS

## APPLICATIONS

Heat sealable metallized film for lamination & Printing.

## DESCRIPTION

One side metalized, other side heat sealable CPP film for packaging structure.
The film exhibits excellent water vapour and gas barrier properties.
During metallization process film is treated with plasma for improving metal adhesion and barrier properties. Metallized side is specifically designed for excellent surface treatment retention behaviour as well as very good anchorage with lamination adhesives. The untreated heat sealable side exhibits excellent seal strength.

## KEY FEATURES

- Very good water vapour and gas barrier properties.
- Excellent adhesion of aluminium.
- Very good metal bond strength.
- Excellent machinability .
- Very good seal strength.



METALIZED CPP FILMS

## TECHNICAL DATA SHEET

| PROPERTIES | TEST METHOD | UNIT | AC20H1-MZ | AC22H1-MZ | AC25H1-MZ | AC30H1-MZ | AC35H1-MZ | AC40H1-MZ |
|---|---|---|---|---|---|---|---|---|
| **Physical** | | | | | | | | |
| Thickness | ASTM D 374 | Micron | 20 | 22 | 25 | 30 | 35 | 40 |
| Grammage | ATM | $gm/m^2$ | 18.20 | 20.02 | 22.75 | 27.30 | 31.85 | 36.40 |
| Yield | ATM | $m^2/kg$ | 54.9 | 49.95 | 55.0 | 44.95 | 31.40 | 27.47 |
| **Surface** | | | | | | | | |
| Treatment Level (Min)- Metallised Side | ASTM D 2578 | dyne/cm | 38 | 38 | 38 | 38 | 38 | 38 |
| **Optical** | | | | | | | | |
| Optical Density (Min) | ATM | - | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| **Mechanical** | | | | | | | | |
| Coefficient of Friction (Max) | ASTM D 1894 | Static | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 |
| | | Kinetic | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Tensile Strength (Min) | ASTM D 882 | $kg/cm^2$ MD | 500 | 500 | 500 | 500 | 500 | 500 |
| | | TD | 250 | 250 | 250 | 250 | 250 | 250 |
| Modulus (Min) | ASTM D 882 | $kg/cm^2$ MD | - | - | - | - | - | - |
| | | TD | | | | | | |
| Elongation (Max) | ASTM D 882 | % MD | 450 | 450 | 450 | 450 | 450 | 450 |
| | | TD | 600 | 600 | 600 | 600 | 600 | 600 |
| **Thermal** | | | | | | | | |
| Shrinkage (Max) at 120°C / 5 min | ATM | % MD | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | | TD | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Seal Initiation Temperature (Max) | ATM | °C | 115-128 | 115-128 | 115-128 | 115-128 | 115-128 | 115-128 |
| Sealing Strength (Min) at 120°C / 2 Bar / 1 Sec | ATM | gms/25mm | 600 | 600 | 600 | 600 | 600 | 600 |
| **Barrier** | | | | | | | | |
| Water Vapour Transmission Rate | ASTM E 398 | $gm/m^2/24h$ | 0.90 | 0.85 | 0.85 | 0.85 | 0.85 | 0.80 |
| Oxygen Gas Transmission Rate | ASTM E 3985 | $cc/m^2/24h$ | 148 | 145 | 144 | 145 | 142 | 140 |

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. AAKASH 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.

Storage & Handling : Temperature should preferably be less than 30°C & Humidity 55±5% in storage area and material should be consumed with three month of receipt.
ATM : Aakash Test Method, MD : Machine Direction,TD :Transverse Direction