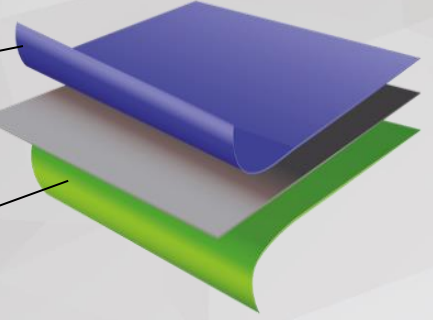


TECHNICAL DATA SHEET

Printable Aluminium Layer

Polypropylene Core Layer

Polypropylene Layer



SUPMET

1031 Y

Description

SUPMET 1031 Y is a metallized, biaxially oriented polypropylene (BOPP) film for general wrapping applications. No heat seal property.

Metallized films for general purpose packaging applications like gift and flower wrapping where excellent shiny metallic appearance is requested.

Primering onto metal surface for adequate ink adhesion is highly recommended.

Properties

- Brilliant metallic appearance
- Good oxygen, moisture and UV light barrier
- Excellent dimensional stability
- Resistance to chemicals, greases and oils
- Low static property

Technical Features

| PROPERTIES | TEST METHOD | UNITS | 1031 Y | | SPECIFICATION RANGE |
|---------------------------------------------|---------------|------------------------------|--------------------|--------|---------------------|
| THICKNESS | ASTM F2251 | micron | 30 | 35 | ± 3% |
| | | Gauge | 120 | 140 | ± 3% |
| YIELD | ASTM D4321 | m ² /kg | 36,6 | 31,4 | ± 3% |
| | | in ² /Lbs | 25.800 | 22.100 | ± 3% |
| UNIT WEIGHT | ASTM D4321 | g/m ² | 27,3 | 31,9 | ± 3% |
| OXYGEN TRANSMISSION RATE (23°C-0%RH) | ASTM D3985 | cc/m ² /24hrs | 75 | | ± 20% |
| | | cc/100in ² /24hrs | 4,8 | | ± 20% |
| WATER VAPOUR TRANSMISSION RATE (38°C-90%RH) | ASTM E96 | g/m ² /24hrs | 0,50 | | ± 20% |
| | | g/100in ² /24hrs | 0,03 | | ± 20% |
| TENSILE STRENGTH AT BREAK | ASTM D882 | MD | N/mm ² | 160 | ± 30 |
| | | | lb/in ² | 23.200 | ± 4.400 |
| | | TD | N/mm ² | 290 | ± 30 |
| | | | lb/in ² | 42.100 | ± 4.400 |
| ELONGATION AT BREAK | ASTM D882 | MD | % | 160 | ± 30 |
| | | TD | % | 60 | ± 20 |
| THERMAL SHRINKAGE (120 °C, 5 min, air) | ASTM D1204 | MD | % | 3 | ± 1 |
| | | TD | % | 1 | ± 1 |
| COEFFICIENT OF FRICTION | ASTM D1894 | Film/Film | 0,35 | | ± 0,05 |
| | | Film/Metal | 0,25 | | ± 0,05 |
| OPTICAL DENSITY | MACBETH TD931 | - | 2,0 | | ± 0,2 |

Regulatory Status

Our product complies with the applicable EC legislation on packaging involving direct contact with foods except metallized films. Full details are given on the Regulatory Compliance Certificate and can be found on our web site.

Metallization is a special process and aluminium coated surface is very sensitive to environmental conditions. Even though metal surface tension is above 40 dynes after production, it tends to decrease within time influencing by climatic conditions and storage periods. A guarantee of the duration of surface tension of metallized surface can not be given. We recommend to store metallized films in a dry place and at temperatures below 30°C. It is also advised to use metallized films as 'First in, First Out' principle. In-line treatment and/or priming onto metal surface for adequate ink or coating adhesion is strongly recommended. The metallized surface can normally be laminated with most of the substrates. Other properties of the metallized films are guaranteed for 6 months from the date of production.

The information contained in this data sheet is true and accurate according to current state of our knowledge and intended to give general information on our products and their applications. Above values are to be considered as guidelines and not as product specifications. Since the actual conditions of use are beyond our control, users are advised to make their own tests at their specific conditions of laboratory and/or actual use. We suggest our customers to determine final suitability for their specific end uses.

Also be advised that information on this data sheet shall not be construed as an inducement or recommendation to use any process or to manufacture or use any product in conflict with existing, pending or future patents.