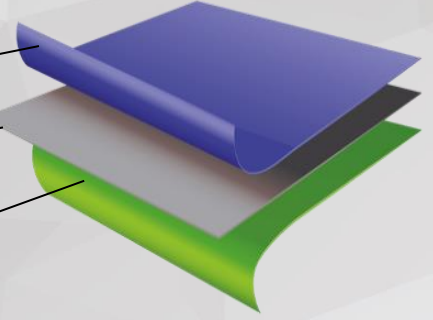


Printable Aluminium Layer

Modified Core Layer

Sealant Layer



SUPMET

3031 HD

Description

SUPMET 3031 HD is a metallized, coextruded, biaxially oriented polypropylene (BOPP) film for special purpose packaging applications. One side is heat sealable and other side is metallized.

Snacks, chips, biscuits, cookies, ice-cream, coffee packaging where higher barrier properties are most important. It can be printed and laminated with BOPP, PET and other substrates.

Specially designed for extrusion coating and lamination processes.

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

Properties

- Excellent metal adhesion
- Brilliant metallic appearance
- Good oxygen, moisture and UV light barrier
- Resistance to chemicals, greases and oils
- Broad seal range
- Excellent heat seal strength and hot tack
- Low static property due to metallic surface
- Enhanced shelf life capability

Technical Features

PROPERTIES	TEST METHOD	UNITS	3031 HD		
THICKNESS	ASTM F2251	micron	18	20	30
		Gauge	72	80	120
YIELD	ASTM D4321	m ² /kg	61,1	54,9	36,6
		in ² /Lbs	42.900	38.600	25.800
UNIT WEIGHT	ASTM D4321	g/m ²	16,4	18,2	27,3
OXYGEN TRANSMISSION RATE (23°C-0%RH)	ASTM D3985	cc/m ² /24hrs	45	40	
		cc/100in ² /24hrs	2,9	2,6	
WATER VAPOUR TRANSMISSION RATE (38°C-90%RH)	ASTM F1249	g/m ² /24hrs	0,4	0,3	
		g/100in ² /24hrs	0,03	0,02	
TENSILE STRENGTH AT BREAK	ASTM D882	MD	N/mm ²	160	
			lb/in ²	23.200	
		TD	N/mm ²	290	
			lb/in ²	42.100	
ELONGATION AT BREAK	ASTM D882	MD	%	160	
		TD		60	
THERMAL SHRINKAGE (120 °C, 5 min, air)	ASTM D1204	MD	%	3	
		TD		1	
COEFFICIENT OF FRICTION	ASTM D1894	Film/Film	0,50		
		Film/Metal	0,25		
OPTICAL DENSITY	MACBETH TD931	-	2,5		
HEATSEAL RANGE	ASTM F88	°C	105-145		
		°F	221-293		
HEATSEAL STRENGTH (120 °C, 1 MPa, 1 s)	ASTM F88	N/15mm	2,0		

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.

For related spec sheet with tolerance values, please contact our sales departments.

REV: 01 Date: 11.10.2022