OPP
Commodity

MetalFilm

Metalized
Bioriented
Polypropylene Film

Description

The OPP MetalFilm MC is one side metalized by a controlled vacuum deposition of high purity aluminum. This film is formulated with non migratory additives for stable slip properties and outstanding metal adhesion. The untreated face offers a broad heat seal range. The metalized side is normally located in the outside face of the reel.

Applications

This product is typically used as the internal web in laminations for products which require light protection, moisture and / or oxygen barrier. Its enhanced properties are fully utilized in high performance food preservation packaging. In order to meet all FDA guidelines for direct food contact, the metal surface should be located in either the outer surface or embedded within the laminated structure. Its seal properties allow it to be used in multiple VFFS or HFFS packaging machinery, in fin and/or lap seals.

Standard Dimensions

Product Code	Thickness (µm)	Unit Weight (g/m²)	Width (mm)	Paper Core	External Ø 550 mm		External Ø 760 mm		Metal Face
					Length (m)	Weight (Kg/cm)	Length (m)	Weight (Kg/cm)	
MC15	15.0	13.6	400 a 2,000	6″	13,900	1.89	27,800	3.77	Outside
MC17	17.5	15.8			11,900		23,800		
MC20	20.0	18.1			10,300		20,600		
MC25	25.0	22.6			8,250		16,500		
MC30	30.0	27.2			6,900		13,800		

Main Characteristics

- Free of migratory additives
- One metalized side for excellent barrier to UV light, gases and a variety of odors.
- Excellent flatness and dimensional stability
- Broad heat sealing range
- Metal side with good ink and adhesive reception

Typical Values of Physical Properties *

Property		Unit	Testing Method	Thickness in microns				
				15	17.5	20	25	30
Optical Density		-	Macbeth	2.2				
Kinetic Coefficient of Friction (F/F)	NT/NT	--	ASTM D1894	0.3				
Tensile Strength	MD	N/mm^2	ASTM D882	125				
	TD			235				
Elongation at Break	MD	%		180				
	TD			50				
Secant Modulus @ 2%	MD	N/mm^2		1,700				
	TD			3,000				
Heat Seal Initiation Temperature (SIT)	NT	°C	ASTM F88 / F2029A 40 psi, 0.5s	105				
Seal Strength @ 130° C	NT	N/25mm		4.0				6.0
Water Vapor Transmission Rate (WVTR) @ 38°C, 90% RH		$g/m^2/day$	ASTM F1249	0.2				
Oxygen Transmission Rate (OTR) @ 22°C, 0% RH		$cm^3/m^2/day$	ASTM D3985	60				

Notes

MD Machine Direction
TD Transverse Direction
NT Non Treated Side
T Treated Side

* Information presented in this data sheet is intended to be used as general guidelines and not as technical specifications

Important Considerations

- It is recommended to store this material at conditions not exceeding 30°C in temperature, at shadow and with a relative humidity of 60%
- There might be a deterioration of certain physical properties by adverse storage conditions through time. It is therefore advisable to keep an adequate inventory turn-over of this material.