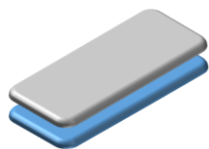




TECHNICAL DATA SHEET

BIAXIALLY ORIENTED, METALLIZED NYLON

IMP450



Vacuum deposited Aluminum layer
Biaxially Oriented Nylon Film

Biaxially oriented nylon film, metallized for decorative applications

PRODUCT FEATURES

- High impact strength and flexibility
- High gloss and reflectivity
- Suitable for use in a wide range of temperature applications

APPLICATIONS

- Suitable for use in many non-food applications such as packaging of objects with hard or sharp edges.
- Suitable for use in laminations
- Used in the manufacture of printed, metallized helium balloons

PROPERTIES	TEST METHOD	UNITS	IMP450	IMP450
GENERAL				
Thickness	ASTM D374	ga	60	100
Density	ASTM D-792	g/cm ²	1.14	1.14
Yield	ASTM D-4321	lb/ream	10.5	17.5
	ASTM D-4321	in ² /lb	41100	24700
Treatment	Metal side	ISO8296	dynes/cm	50
OPTICAL				
Optical Density	X-rite 361		2.2	2.2
SURFACE				
COF	Metal side	ASTM D-1894	<0.80	<0.80
	Film side	ASTM D-1894	<0.80	<0.80
MECHANICAL				
Tensile Strength (at break)	MD	ASTM D-882	Psi	>26000
	TD	ASTM D-882	Psi	>26000
Elongation to Break	MD	ASTM D-882	%	< 180
	TD	ASTM D-882	%	<180
THERMAL				
Shrinkage (320°C/5min)	MD	ASTM D-1204	%	< 3.0
	TD	ASTM D-1204	%	< 3.0
BARRIER				
Oxygen Transmission Rate	(73°F/0% RH)	ASTM F-1927	cc/m ² /24h	1.65
Water Vapor Transmission Rate	(100°F/0% RH)	ASTM F-1249	gm/m ² /24h	0.05

Guidelines for storage

High moisture is the primary cause of processing problems, so significant attention should be paid to the following advice:

1. The film is specially wrapped to exclude moisture and this should be preserved if film is stored. Do not open wrapping until rolls are being used.
2. If a part roll remains after use, it must be immediately re-sealed in aluminum foil wrapping to exclude moisture in storage.
3. Nylon film must be dry to be printable. Film which has not been stored correctly will show inferior ink key and adhesion properties.
4. Film should be printed in a dry, non-humid environment to avoid the film curling and taking up moisture.

FDA Compliance: For information regarding food contact compliance, please contact your Impak Films representative

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