



TECHNICAL DATA SHEET

BIAXIALLY ORIENTED, ONE SIDE TREATED NYLON

IMP401



Biaxially Oriented Nylon
Corona treated on one side

A biaxially oriented polyamide film treated on one side for print and lamination applications

PRODUCT FEATURES

- High impact strength and flexibility
- High oxygen barrier
- High gloss and transparency
- Excellent printability
- Suitable for use in a wide range of temperature applications

APPLICATIONS

- Can be used in a very wide range of food applications including retort, frozen and fresh.
- Suitable for use in many non-food applications such as packaging of objects with hard or sharp edges.

PROPERTIES	TEST METHOD	UNITS	IMP401			
GENERAL						
Thickness	ISO4593	ga	48	60	100	
Density	ASTM D-792	g/cm ²	1.14	1.14	1.14	
Yield	ASTM D-4321	lb/ream	8.4	10.5	17.5	
	ASTM D-4321	in ² /lb	51400	41100	24700	
Treatment	Corona side	ISO8296	dynes/cm	54	54	
OPTICAL						
Haze	ASTM D-1003	%	< 3.0	<3.0	<3.5	
SURFACE						
COF	Treated Side	ASTM D-1894		0.80		
	Untreated side	ASTM D-1894		0.40		
MECHANICAL						
Tensile Strength (at break)	MD	ASTM D-882	Psi	31700	34600	36800
	TD	ASTM D-882	Psi	34600	43300	38200
Elongation to Break	MD	ASTM D-882	%	110 - 130	110 - 130	100 - 140
	TD	ASTM D-882	%	100 - 130	100 - 130	100 - 140
THERMAL						
Shrinkage (320°F/5min)	MD	ASTM D-1204	%	< 2.0		
	TD	ASTM D-1204	%	< 1.5		
BARRIER						
Oxygen Transmission Rate	(73°F/0% RH)	ASTM F-1927	cc/m ² /24h	3.2	2.9	2.6
Water Vapor Transmission Rate	(100°F/0% RH)	ASTM F-1249	gm/m ² /24h	16.8	16.1	15.6

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 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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