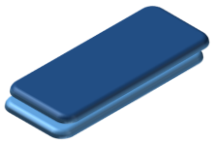
IMPAK FILMS US, LLC

TECHNICAL DATA SHEET

BIAXIALLY ORIENTED, ONE SIDE TREATED NYLON

IMP480



Matte Surface Layer

Corona treated Surface Layer

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

PRODUCT FEATURES

- High impact strength and flexibility
- High oxygen barrier
- Excellent matte appearance
- Excellent printability
- Suitable for use in a wide range of temperature applications
- Resistant to damage by acids, alkali's, organic solvents and fats

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.
- For use in packages where a matte appearance is required.

PROPERTIES		TEST METHOD	UNITS	IMP480
GENERAL				
Thickness*		ISO4593	ga	59
Density		ASTM D-792	g/cm³	1.14
Yield		ASTM D-4321	lb/ream	10.5
		ASTM D-4321	in²/lb	41100
Treatment	Corona side	ISO8296	dynes/cm	58
OPTICAL				
Haze		ASTM D-1003	%	48.0
Gloss- 45°		ASTM D-2457	%	22.0
SURFACE				
COF	Treated Side	ASTM D-1894		0.97
	Untreated side	ASTM D-1894		0.40
MECHANICAL				
Tensile Strength (at break)	MD	ASTM D-882	Psi	34200
	TD	ASTM D-882	Psi	41000
Elongation to Break	MD	ASTM D-882	%	137
	TD	ASTM D-882	%	87
THERMAL				
Shrinkage (160°C/5min)	MD	ASTM D-1204	%	1.10
	TD	ASTM D-1204	%	0.40
BARRIER				
Oxygen Transmission Rate	(73°F/0% RH)	ASTM F-1927	cc/m²/24h	< 3.0
Water Vapor Transmission Rate	(100°F/0% RH)	ASTM F-1249	gm/m²/24h	< 17.0

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

IMPAK FILMS AUSTRALIA (www.impakfilms.com.au)
ABN: 42 586 823 597 **Address:** Unit 1, 15-21 Butler Way, (P.O. Box 1114), Tullamarine Vic. 3043, Australia **Telephone:** +61 3 9310 5540 **Facsimile:** +61 3 9310 5590

IMPAK FILMS USA (www.impakfilms.com)
Address: 2727 Paces Ferry Road, Atlanta, Georgia 30339, USA **Telephone:** +1 866 606 7896 **Facsimile:** +1 678 384 5543