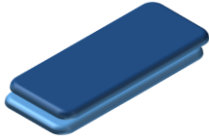




TECHNICAL DATA SHEET

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/cm ³ | 1.14 |
| Yield | | ASTM D-4321 | lb/ream | 10.5 |
| | | ASTM D-4321 | in ² /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/m ² /24h | < 3.0 |
| Water Vapor Transmission Rate | (100°F/0% RH) | ASTM F-1249 | gm/m ² /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

Information in this publication refers to typical values of laboratory tests on samples from standard production. It is believed to be accurate and is given in good faith, but it is for the customer to satisfy themselves of the suitability of the material for their specific application. Accordingly, Impak Films gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that such exclusion is prevented by law. This document is not a product specification. Impak Films reserves the right to change the data sheet at any time without prior notification.

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