

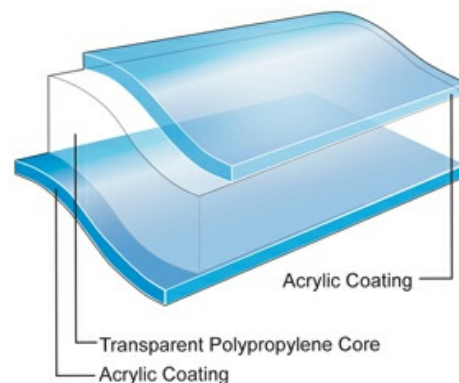
Oriented Polypropylene Film

Product Description

Bicor 20MB666 is a biaxially oriented transparent polypropylene film, acrylic coated two sides. It provides outstanding performance on all packaging machines and is mainly proposed for use in lamination.

Key Features

- Low sealing threshold
- High seal strength even under low pressure sealing conditions-
- Good aroma barrier
- Excellent packaging machine performance
- Outstanding optical properties
- Ideal support for normal ink systems
- Water based coatings



General

Availability

- ✓ Africa & Middle East
- ✓ Asia Pacific
- ✓ Europe

Features

- ✓ Acrylic Coated
- ✓ Flavor & Aroma Barrier
- ✓ In Lamination Lap Sealable

Applications

- ✓ Biscuits/Cookie/Crackers
- ✓ Box Overwrap
- ✓ Confectionery, Gum
- ✓ Confectionery, Sugar
- ✓ Confectionery, Chocolate
- ✓ Health and Beauty Care
- ✓ Household and Detergents
- ✓ Crisps and Snacks
- ✓ Pet Food

Uses

- ✓ Box Overwrap Flexible Packaging
- ✓ HFFS Flexible Packaging
- ✓ Pre-made Bags - Flexible Packaging
- ✓ VFFS Flexible Packaging

Appearance

- ✓ Clear/Transparent

Processing Method

- ✓ Cold Seal Adhesive
- ✓ Inner Web Adhesive Lamination
- ✓ Outer Web Adhesive Lamination
- ✓ Solvent Flexographic Printing
- ✓ Solvent Rotogravure Printing
- ✓ Surface Print Unsupported

Revision date

- ✓ October 10, 2013

Properties

| Property | Typical Value | Unit | Test Based On |
|---|---------------|--|-----------------|
| Yield | 55.0 | m ² /kg | Internal Method |
| Unit Weight | 18.2 | g/m ² | Internal Method |
| Film Thickness | 20 | μ | Internal Method |
| Haze | 1.2 | % | Internal Method |
| Gloss(45°) | 85 | | Internal Method |
| Tensile Strength at Break <i>200 mm/min pull rate, 120 mm jaw separation</i> | | | |
| MD | 160 | Mpa | Internal Method |
| TD | 290 | Mpa | Internal Method |
| Elongation at Break | | | |
| MD | 175 | % | Internal Method |
| TD | 60 | % | Internal Method |
| Dimensional Stability 135°C / 275°F, 7 min | | | |
| MD | -6.0 | % | Internal Method |
| TD | -5.5 | % | Internal Method |
| Elastic Modulus | | | |
| MD | 2000 | Mpa | Internal Method |
| TD | 3800 | Mpa | Internal Method |
| Seal Strength (ESM) | | | |
| 105°C, 0.034 Mpa, 2 sec | 300 | g/2.5 cm | Internal Method |
| Heat Seal Range | | | |
| 0.250 Mpa, 0.2 sec | 50 | °C | Internal Method |
| Coefficient of Friction | | | |
| Both Sides | 0.25 | | Internal Method |
| Water Vapor Transmission Rate | | | |
| 38°C, 90% RH | 7.0 | g/m ² /24 hr | Internal Method |
| 23°C, 85% RH | 1.4 | g/m ² /24 hr | Internal Method |
| Oxygen Transmission Rate | | | |
| 23°C, 0% RH | 1000 | cm ³ /m ² /24 hr | Internal Method |
| Oxygen Transmission Rate (Wet) | | | |
| 23°C, 75% RH | 1000 | cm ³ /m ² /24 hr | Internal Method |

Legal Statement

Contact your Jindal Films Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB). This product is not intended for use in medical applications and should not be used in any such applications.

Footnotes

1. Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete country availability.
2. Dimensional stability is reported for uncoated base film.
3. Tested at 38°C (100°F)/100%RH, then calculated to 90%RH with .90 multiplier.
4. Sample dimensions and conditioning vary due to differences in equipment design.

Typical properties: these are not to be construed as specifications.

© 2013 Jindal Films. Jindal Films, the Jindal Films logo, and other product or service names used herein are trademarks of Jindal Films, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without Jindal Films' prior written authorization. To the extent Jindal Films authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to, or reproduce it in whole or in part on, a website. Jindal Films does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee the accuracy, reliability, or completeness of this information; nor do we warrant, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, or suitability of the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of, or related to, anyone using or relying on any of the information in this document. This document is not an endorsement of any non-Jindal Films' product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "Jindal Films" and "Jindal" are each used for

convenience, and may include Films Americas LLC, Jindal Films Americas LLC, Films Europe S.A.R.L. or any companies affiliated with them in the production and sale of film products. There are a number of such affiliated companies, many with names including "Jindal" or "Film". Neither the use of these terms of convenience, nor anything else in this document, is intended to override or supersede the legal separateness of those affiliated companies and responsibility for local action and accountability remains with them.