

## Oppalyte™ 42MH648

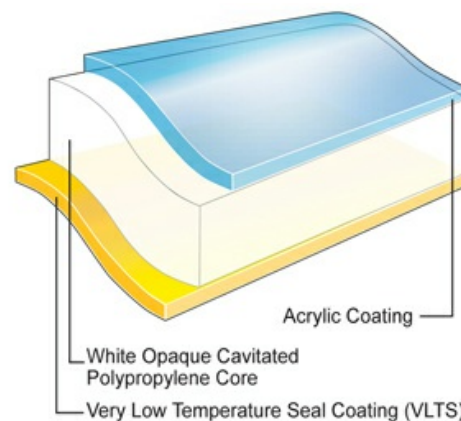
### Oriented Polypropylene Film

#### Product Description

OPPalyte 42MH648 is a high-speed super-white opaque, modified higher density, biaxially oriented polypropylene film, coated one side acrylic, one side very low temperature seal (VLTS) coating. VLTS coating provides excellent performance on high speed HFFS machines. Acrylic provides the aroma barrier and an excellent support for printing.

#### Key Features

- Exceptional wide sealing range with a low minimum sealing temperature (MST)
- Excellent seal strength and hot-tack
- Robust performance on horizontal flowpack machines
- Excellent humidity seal retention on VLTS side
- Good aroma barrier
- Excellent stiffness
- Outstanding opacity, white background and reduced show-through
- Ideal support for normal ink systems
- Water based coatings



#### General

##### Availability

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

##### Features

- ✓ Acrylic Coated
- ✓ Flavor & Aroma Barrier
- ✓ Humidity Resistant
- ✓ Very Broad Seal Range
- ✓ Light Barrier
- ✓ Very Low Temperature Seal (VLTS) Coated

##### Applications

- ✓ Biscuits/Cookie/Crackers
- ✓ Confectionery, Gum
- ✓ Confectionery, Sugar
- ✓ Bakery
- ✓ Confectionery, Chocolate
- ✓ Health and Beauty Care
- ✓ Household and Detergents
- ✓ Crisps and Snacks
- ✓ Dry Foods and Beverage Powders
- ✓ Pet Food
- ✓ Ice Cream

##### Uses

- ✓ HFFS Flexible Packaging

##### Appearance

- ✓ White

## Processing Method

- ✓ Solvent Flexographic Printing
- ✓ Solvent Rotogravure Printing
- ✓ Surface Print Unsupported

## Revision date

- ✓ July 16, 2014

## Properties

Property	Typical Value	Unit	Test Based On
Yield	32.2	m <sup>2</sup> /kg	Internal Method
Unit Weight	31.0	g/m <sup>2</sup>	Internal Method
Film Thickness	42	μ	Internal Method
Gloss(45°)	70		Internal Method
Light Transmission	25.0	%	Internal Method
Whiteness Index	85		Internal Method
Tensile Strength at Break <i>200 mm/min pull rate, 120 mm jaw separation</i>			
MD	105	Mpa	Internal Method
TD	185	Mpa	Internal Method
Dimensional Stability 135°C / 275°F, 7 min			
MD	-5.0	%	Internal Method
TD	-3.0	%	Internal Method
Elongation at Break <i>200 mm/min pull rate, 120 mm jaw separation</i>			
MD	170	%	Internal Method
TD	55	%	Internal Method
Elastic Modulus			
MD	1700	Mpa	Internal Method
TD	2800	Mpa	Internal Method
Seal Strength (ESM) <i>VLTS/VLTS</i>			
85°C, 0.034 Mpa, 2 sec	300	g/2.5 cm	Internal Method
Heat Seal Range <i>VLTS/VLTS</i>			
	70	°C	Internal Method
Coefficient of Friction			
Acrylic/Acrylic	0.25		Internal Method
VLTS/VLTS	0.40		Internal Method
Water Vapor Transmission Rate			
38°C, 90% RH	4.0	g/m <sup>2</sup> /24 hr	Internal Method
23°C, 85% RH	0.80	g/m <sup>2</sup> /24 hr	Internal Method
Oxygen Transmission Rate			
23°C, 0% RH	750	cm <sup>3</sup> /m <sup>2</sup> /24 hr	Internal Method
Oxygen Transmission Rate (Wet)			
23°C, 75% RH	750	cm <sup>3</sup> /m <sup>2</sup> /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.

## Processing Statement

- Acrylic and VLTS coatings are not seal compatible

## 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. Tested at 38°C (100°F)/100%RH, then calculated to 90%RH with .90 multiplier.
3. 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.