



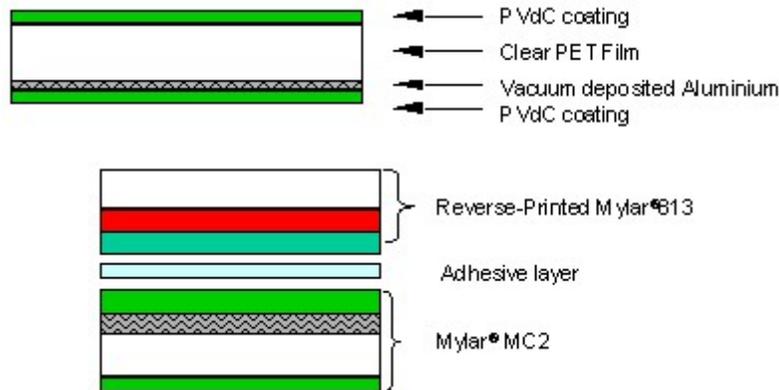
MYLAR® MC2

Product Description

Mylar® MC2 is a polyester film with a vacuum deposited layer of aluminum on one side and overcoated on both sides with a heat sealable PVdC copolymer. The film has excellent oxygen and light barrier properties. It is available commercially in nominal 50 gauge. Mylar® MC2 exhibits high and consistent metal side heat seal, strong metal side laminate bonds and is less moisture sensitive. The film is wound with the metal side facing away from the core.

General Product Info

Mylar® MC2 can be surface printed with appropriately formulated inks. It can be combined with other webs by adhesive, extrusion and thermal lamination. In laminated form, the film can be used either as the outside or inside web of the package. In laminations, retained laminating solvents should be minimized. High boiling solvents like methyl isobutyl ketone (MIBK, boiling point 246°F) should be avoided. High levels of retained solvents can cause PVdC coating lift and loss of laminate bond strength. When a PVdC surface of the film or film laminate comes in contact with crimp sealing jaws on F/F/S equipment, some crimp jaw sticking is possible at elevated temperatures. This problem can be minimized with a surface-applied, heat resistant overlacquer, and in laminations, by selecting a low-temperature sealant layer such as Surlyn® resin. Unlike some other PVdC coatings that may start to break down when exposed to sterilizing doses of gamma rays, the Mylar® MC2 coating is resistant to these effects and maintains excellent barrier properties after such exposure.



High temperature heat sealing of polymer-coated Mylar® MC2 may release small amounts of irritating fumes that should be removed through the use of area ventilation.

Typical Applications

Mylar® MC2 can be used in plain and multi-structured form to package snacks, candy, nuts, pharmaceuticals, dry chemicals and other materials that require protection from moisture, oxygen and light. Its flex crack resistance, which ensures retention of its excellent barrier properties even after severe flexing, outperforms foils and foil structures.

Approvals

Food Contact Status - Please contact your DuPont Teijin Films representative to receive the Regulatory Compliance documents

Disposal

Dispose of in compliance with federal, state and local regulations. Preferred options for disposal are (1) recycling, (2) incineration with energy recovery, and (3) landfill. The high fuel value of this product makes option No. 2 very desirable for material which cannot be recycled, but the incinerator must be capable of scrubbing out acidic off gases.

Typical Properties

Available Thickness [Gauge]
50

Property	Thickness	Value	Units	Test
BARRIER				
Gas Permeability - O ₂ , 24 hr	50	0.01	cc/100 in ²	ASTM D3985 22°C/50% RH/1 ATM
WVTR	50	0.04	g/100 in ² /day	ASTM F1249 38°C, 90% RH
OPTICAL				
Clarity	50	<0.5	%	ASTM D1746
PHYSICAL				
Elongation at Break MD	50	100	%	ASTM D882A
Elongation at Break TD	50	80	%	ASTM D882A
Modulus	50	500	kpsi	ASTM D822
Tear (Graves)	50	0.7	lb	ASTM D1004
Tensile Strength MD (break)	50	24	kpsi	ASTM D882A
Tensile Strength TD (break)	50	28	kpsi	ASTM D882A
Unit Weight	50	12.6	lb/ream	ASTM E252 (0.5 m ²)
Yield (nominal)	50	34,900	in ² /lb	
THERMAL				
Heat Seal Strength (Coat/Coat)	50	200	g/in	250°F, 0.5 sec, 20 psi

Contact Info

DuPont Teijin Films U.S. Limited Partnership
3600 Discovery Drive
Chester, VA 23836 USA
Tel: (800) 635-4639
Fax: (804) 530-9867

Disclaimer

Note: These values are typical performance data for DuPont Teijin Films' polyester film; they are not intended to be used as design data. We believe this information is the best currently available on the subject. It is offered as a possible helpful suggestion in experimentation you may care to undertake along these lines. It is subject to revision as additional knowledge and experience is gained. DuPont Teijin Films makes no guarantee of results and assumes no obligation or liability whatsoever in connection with this information. This publication is not a license to operate under, or intended to suggest infringement of, any existing patents.

CAUTION: Do not use in medical applications involving permanent implantation in the human body ([DuPont Teijin Films Medical Policy](#)). For other medical applications, see the [Medical Caution Statement](#). DuPont Teijin Films accepts no liability for use of its products in medical applications not reviewed and approved by DuPont Teijin Films or for product misuse. DuPont Teijin Films supplies products to an agreed specification and does not manufacture products designed specifically for medical end use.

Melinex®, Mylar® and Melinex® ST™ are registered trademarks of DuPont Teijin Films U.S. Limited Partnership. Teijin® and Teton® are registered trademarks of Teijin Limited used under license by DuPont Teijin Films U.S. Limited Partnership. Teonex® is a registered trademark of Teijin DuPont Films Japan Limited and is used under license by DuPont Teijin Films U.S. Limited Partnership.