



# DuPont Teijin Films™

## MYLAR® BK2

### Product Description

MYLAR® BK2 is a biaxially oriented polyester (OPET) film with an amorphous polyester heat seal layer. It is used as a heat sealable lidding film in various packaging applications. MYLAR® BK2 is commercially available in nominal 50, 75, and 100 gauges.

### General Product Info

MYLAR® BK2 is a dual ovenable film which provides good, generally peelable seals to polar substrates such as amorphous polyester (APET; also PETG), semicrystalline polyester (CPET), polyester coated paperboard, and polyvinylchloride (PVC). Heat seals with Mylar® BK2 are designed to be self-venting and generally strippable from the above containers. In addition, the heat seal surface provides a non-stick feature for various food products. MYLAR® BK2 can withstand freezing temperatures down to -40°F and foods can be heated or cooked in contact with this film at temperatures up to 400°F.

**Table 1 - Heat Seal Strength (grams/inch) to Various Container Substrates**

Container Substrate	Ambient: 72°F (23°C) 50% RH			Refrigerator: 32°F (0°C)			Freezer: 0°F (-18°C)		
	Seal Bar Temperature			Seal Bar Temperature			Seal Bar Temperature		
	300°F (149°C)	350°F (177°C)	400°F (204°C)	300°F (149°C)	350°F (177°C)	400°F (204°C)	300°F (149°C)	350°F (177°C)	400°F (204°C)
APET	+++	+++	+++	+++	+++	+++	+++	+++	+++
CPET	++	++	++	++	++	++	+	++	++
PVC	+++	+++	+++	+++	+++	+++	+++	+++	+++
HDPE									
PP									
HIPS									

Legend: + is 100 to 650 g/in; ++ 700 to 1250 g/in; +++ is 1300 to 1850 g/in; ++++ is > 1900 g/in

\* Seals made with a SENTINEL® heat sealer at 20 psi bar pressure with a 0.5 second dwell time and a 1 inch seal bar

NOTE: These values are typical data for this Mylar® polyester film and are not intended for use as limiting specifications. For additional information contact your DuPont Teijin Films Representative

### Approvals

**FDA Food Contact Status** - All gauges of Mylar® BK2 comply with the Food and Drug Administration regulation 21 CFR 177.1630 - Polyethylene Terephthalate Polymers. This regulation describes films which may be safely used in contact with all types of food excluding alcoholic beverages. Mylar® BK2 can be used to contain foods during oven cooking or oven baking at temperatures above 250°F.

### Disposal

Disposal of MYLAR® BK2 does not present special disposal problems. It can be buried as a relatively inert material in a landfill or burned in an incinerator with normal refuse. The incinerator should have sufficient draft to exhaust all combustion products through the stack to avoid exposure to irritating fumes. The disposal method should comply with local, state and federal regulations.

### Typical Properties

<b>Available Thickness [Gauge]</b>
50; 75; 100

Property	Thickness	Value	Units	Test
<b>BARRIER</b>				
Gas Permeability - O <sub>2</sub> , 24 hr	50	9	cc/100 in <sup>2</sup>	ASTM D3985 22°C/75% RH/1 ATM

Gas Permeability - O <sub>2</sub> , 24 hr	75	7	cc/100 in <sup>2</sup>	ASTM D3985 22°C/75% RH/1 ATM
Gas Permeability - O <sub>2</sub> , 24 hr	100	5	cc/100 in <sup>2</sup>	ASTM D3985 22°C/75% RH/1 ATM
WVTR	50	2.8	g/100 in <sup>2</sup> /day	ASTM F1249 38°C, 90% RH
WVTR	75	1.9	g/100 in <sup>2</sup> /day	ASTM F1249 38°C, 90% RH
WVTR	100	1.3	g/100 in <sup>2</sup> /day	ASTM F1249 38°C, 90% RH
<b>PHYSICAL</b>				
Elongation at Break MD	50 - 100	110	%	ASTM D882A
Elongation at Break TD	50 - 100	80	%	ASTM D882A
Modulus	50 - 100	550	kpsi	ASTM D822
Tear (Graves)	50	0.7	lb	ASTM D1004
Tear (Graves)	75	0.9	lb	ASTM D1004
Tear (Graves)	100	1.1	lb	ASTM D1004
Tensile Strength MD (break)	50 - 100	25	kpsi	ASTM D882A
Tensile Strength TD (break)	50 - 100	35	kpsi	ASTM D882A
Unit Weight	50	12.5	lb/ream	ASTM E252 (0.5 m <sup>2</sup> )
Unit Weight	75	18.3	lb/ream	ASTM E252 (0.5 m <sup>2</sup> )
Unit Weight	100	22.0	lb/ream	ASTM E252 (0.5 m <sup>2</sup> )
Yield (nominal)	50	34,700	in <sup>2</sup> /lb	
Yield (nominal)	75	23,800	in <sup>2</sup> /lb	
Yield (nominal)	100	19,800	in <sup>2</sup> /lb	

## Contact Info

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## 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.

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