



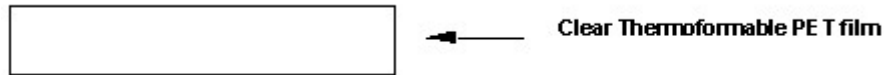
MYLAR® P25

Product Description

Mylar® P25 is an uncoated, transparent polyester packaging film designed to be combined with a sealant layer, where the resulting structure will be shallow draw thermoformed. Standard thicknesses are 50 and 75 gauge, although other thicknesses may be available upon special request. All gauges can be supplied with a corona surface treatment, as P25T, for improved bonding to inks and adhesives. Refer to P25T's "Product Data Sheet" for more information.

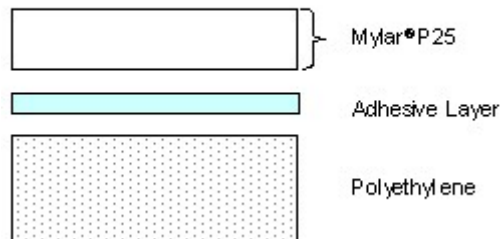
General Product Info

The 50 gauge film can be formed to a maximum draw depth of 1 1/8 in (28 mm), where the draw ratio (area/area) does not exceed 2.0. The 75 gauge P25 can be thermoformed to a maximum draw depth of 1 1/2 in (38 mm) with a maximum draw ratio of 2.25. Good temperature control is essential for satisfactory thermoforming. Observation of excessive web thinning and/or frequent "poppers" during thermoforming usually indicate that the forming temperature should be increased.



The preferred process for making multilayered structures with P25 is through adhesive lamination, because relatively low web temperatures can be used. While extrusion coating also is an option, extra care must be taken to prevent unwanted stretching of the web. For the same reasons, care must be exercised when subjecting P25 to any converting process involving heating or drying.

Fig.1



Typical Applications

Combinations of P25 and a sealant layer are used in peelable lidding, medical packaging, and as the formed web in hermetically sealed pouches for "heat-in-bag" applications for frozen entrees and vegetables. It is also used in similar applications - particularly where the oxygen barrier properties provided by PVdC-coated films are not required.

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 that cannot be recycled.

Typical Properties

Available Thickness [Gauge]
50; 75

Property	Thickness	Value	Units	Test
BARRIER				
Gas Permeability - O ₂ , 24 hr	50	9	cc/100 in ²	ASTM D3985 22°C/75% RH/1 ATM
Gas Permeability - O ₂ , 24 hr	75	7	cc/100 in ²	ASTM D3985 22°C/75% RH/1 ATM
WVTR	50	2.8	g/100 in ² /day	ASTM F1249 38°C, 90% RH
WVTR	75	1.9	g/100 in ² /day	ASTM F1249 38°C, 90% RH
OPTICAL				
Clarity	50	71	%	ASTM D1746
Clarity	75	70	%	ASTM D1746
Gloss 20 Degrees	50	125		ASTM D2457
Gloss 20 Degrees	75	105		ASTM D2457
Haze	50	5	%	ASTM D1003
Haze	75	6	%	ASTM D1003
PHYSICAL				
C.O.F. (static)		0.5		ASTM D1894
Elongation at Break MD	50	170	%	ASTM D882A
Elongation at Break MD	75	170	%	ASTM D882A
Elongation at Break TD	50	135	%	ASTM D882A
Elongation at Break TD	75	140	%	ASTM D882A
Modulus (Stiffness) MD	50	430	kpsi	ASTM D822
Modulus (Stiffness) MD	75	460	kpsi	ASTM D822
Modulus (Stiffness) TD	50	460	kpsi	ASTM D822
Modulus (Stiffness) TD	75	490	kpsi	ASTM D822
Tear (Graves)	50	0.7	lb	ASTM D1004
Tear (Graves)	75	0.9	lb	ASTM D1004
Tensile Modulus MD	50	430	kpsi	ASTM D882A
Tensile Modulus MD	75	460	kpsi	ASTM D882A
Tensile Modulus TD	50	460	kpsi	ASTM D882A
Tensile Modulus TD	75	490	kpsi	ASTM D882A

Tensile Strength MD (break)	50 - 75	22	kpsi	ASTM D882A
Tensile Strength TD (break)	50 - 75	26	kpsi	ASTM D882A
Unit Weight	50	10.8	lb/ream	ASTM E252 (0.5 m ²)
Unit Weight	75	16.2	lb/ream	ASTM E252 (0.5 m ²)
Yield (nominal)	50	40,100	in ² /lb	
Yield (nominal)	75	26,700	in ² /lb	
THERMAL				
Shrinkage MD (150°C)	50-75	2.8	%	Unrestrained @ 150°C/30 min
Shrinkage TD (150°C)	50-75	2.5	%	Unrestrained @ 150°C/30 min

Standard Put-ups

Core I.D. (Inches)	Roll O.D. (Inches)	Thickness (Gauge)	Length (Feet)
3	9 1/2 ± 1/4	50	10,100
3	9 1/2 ± 1/4	75	6,800
3	13 ± 1/4	50	20,400
3	13 ± 1/4	75	13,600
3	18 ± 1/4	50	40,700
3	18 ± 1/4	75	27,200
6	11 ± 1/4	50	10,200
6	11 ± 1/4	75	6,800
6	14 ± 1/4	50	20,000
6	14 ± 1/4	75	13,400
6	18 ± 1/4	50	36,800
6	18 ± 1/4	75	24,500
6	22 1/2 ± 1/4	50	60,600
6	22 1/2 ± 1/4	75	40,400
6	24 ± 1/4	50	69,700
6	24 ± 1/4	75	46,500

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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