

DuPont Teijin Films Mylar® P25 Polyester Film, 75 Gauge

Category : Polymer , Film , Thermoplastic , Polyester, TP , Polyester Film

Material Notes:

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. **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:** FDA Food Contact Status - All gauges of Mylar® P25 comply with the Food and Drug Administration regulation 21 CFR 177.1630 -- Polyethylene phthalate polymers. This regulation describes films which may be safely used in contact with all types of food excluding alcoholic beverages. Uncoated films such as Mylar® P25 can be used to contain foods during oven cooking or oven baking at temperatures above 250°F. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-P25-Polyester-Film-75-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	Typical Mylar®; ASTM D1505
Water Vapor Transmission	29.5 g/m ² /day @Temperature 38.0 °C	1.90 g/100 in ² /day @Temperature 100 °F	90% RH; ASTM F1249
Coating Weight	25.9 g/m ²	16.2 lb/ream	0.5 m ² >2</sup>; ASTM E252

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	170 %	170 %	ASTM D882A
Film Elongation at Break, TD	140 %	140 %	ASTM D882A
Secant Modulus, MD	3.17 GPa	460 ksi	ASTM D882
Secant Modulus, TD	3.38 GPa	490 ksi	ASTM D882
Coefficient of Friction, Static	0.50	0.50	ASTM D1894

Graves Tear Strength Mechanical Properties	0.158 kN/m Metric	0.900 pli English	ASTM D1004 Comments
Film Tensile Strength at Break, MD	152 MPa	22000 psi	ASTM D882A
Film Tensile Strength at Break, TD	179 MPa	26000 psi	ASTM D882A

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.17 J/g-°C	0.280 BTU/lb-°F	Typical Mylar®
Melting Point	254 °C	489 °F	Typical Mylar® via DSC
Maximum Service Temperature, Air	121 °C	250 °F	
Shrinkage, MD	2.8 % @Temperature 150 °C, Time 1800 sec	2.8 % @Temperature 302 °F, Time 0.500 hour	Unrestrained
Shrinkage, TD	2.5 % @Temperature 150 °C, Time 1800 sec	2.5 % @Temperature 302 °F, Time 0.500 hour	Unrestrained

Optical Properties	Metric	English	Comments
Haze	6.0 %	6.0 %	ASTM D1003
Gloss	105 %	105 %	20°; ASTM D2457
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Descriptive Properties	Value	Comments
Clarity	0.7	ASTM D1746
Gas Permeability (Base film)	7 cc/100 in ²	O ₂ , 24 hr; ASTM D3985 77°F/75% RH/1 ATM
Yield (nominal)	26700 in ² /lb	

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