

DuPont Teijin Films Mylar® M45 Polyester Film, 50 Gauge (15 µm), PVDC Coated (discontinued **)

Category : Polymer , Film , Thermoplastic , Polyester, TP , PVDC , Polyvinyl Dichloride (PVDC) Coated Polyester Film

Material Notes:

Data provided by DuPont Packaging Polymers. A transparent polyester packaging film, dispersion coated on one side with a PVDC copolymer. The coating is an excellent moisture and oxygen barrier. M45 is designed to be combined with a sealant layer, locking in the PVDC coating. M45 can be surface or reverse printed with appropriately formulated inks, and can be combined with other webs by adhesive or extrusion laminating. The coated surface is particularly well suited for water based inks and adhesives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-M45-Polyester-Film-50-Gauge-15-m-PVDC-Coated-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	Average value for Mylar® films.
Moisture Vapor Transmission	0.0900 cc-mm/m ² -24hr-atm	0.229 cc-mil/100 in ² -24hr-atm	ASTM E96 Procedure E
Water Vapor Transmission	6.00 g/m ² /day	0.386 g/100 in ² /day	ASTM E96 Procedure E
Oxygen Transmission	0.0780 cc-mm/m ² -24hr-atm	0.198 cc-mil/100 in ² -24hr-atm	or 6 cc/m ² -24hr-atm for the film. ASTM D3985

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	155 %	155 %	ASTM D882
Film Elongation at Break, TD	120 %	120 %	ASTM D882
Modulus of Elasticity	3.45 GPa	500 ksi	(stiffness), ASTM D882
Tear Strength Test	300	300	Graves, g; ASTM D1004
Film Tensile Strength at Break, MD	152 MPa	22000 psi	ASTM D882
Film Tensile Strength at Break, TD	179 MPa	26000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	Not cleared by FDA for food temperatures above this temperature.
Shrinkage	2.2 % @Temperature 150 °C, Time 1800 sec	2.2 % @Temperature 302 °F, Time 0.500 hour	Film shrinkage in oven.

Optical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
Gloss	130 %	130 %	20°; ASTM D2457
Transmission, Visible	70 %	70 %	% Clarity; ASTM D1746

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