

DuPont Teijin Films Mylar® OL2 Polyester Film, 100 Gauge

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

Material Notes:

Product Description: Mylar® OL2 is a biaxially oriented polyester (OPET) film with an amorphous polyester heat seal layer. It is used as a heat sealable lidding film in packaging refrigerated and frozen foods. Mylar® OL2 is commercially available in nominal 50, 75 and 100 gauges. Mylar® OL2 is 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). Mylar® OL2 does not seal to polyethylene, polypropylene, or polystyrene. DuPont Teijin Films offers another family of lidding films (RL types) for sealing to these substrates. Similar to Mylar® OL, heat seals with Mylar® OL2 are designed to be self venting and generally strippable from the above containers. Mylar® OL2 has a thicker seal layer than Mylar® OL and is recommended when the sealant thickness of Mylar® OL is not sufficient to make intimate contact with mating surface of the container. Mylar® OL2 produces higher seal strengths to most substrates than does Mylar® OL, and lower gauges tend to shred (film tear or break) more than Mylar® OL when peeled in cold environments.

Shredding (film tear or break) can be minimized by using higher gauges.
Corona Treatment (Mylar® OL2T): Selected gauges of Mylar® OL2 are available with corona treatment (on the side opposite the heat seal layer) to enhance printing and laminating. This film type is marketed by DuPont Teijin Films as Mylar® OL2T. The film is treated to an initial dyne level of 54. The dyne level of treated lidding films may decline with storage, and in-line corona treatment may be required during subsequent printing or laminating to increase the dyne level to a value adequate to get desired ink or laminate adhesion. Standard put-ups for Mylar® OL2T are the same as shown for Mylar® OL2. **Anti-fog (Mylar® OLAF, OLAT):** Selected gauges of Mylar® OL2 lidding films are available with anti-fogging capability to provide better clarity when stored and displayed in refrigerated conditions. This film type is marketed by DuPont Teijin Films as Mylar® OLAF. Mylar® OLAF is also available with corona treatment on the side opposite the heat seal layer. This film is marketed by DuPont Teijin Films as Mylar® OLAT.

Approvals: FDA Food Contact Status - All gauges of Mylar® OL2 and OL2T 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. Mylar® OL2 and OL2T can be used to contain foods during oven cooking or oven baking at temperatures above 250°F. (Note: This claim also applies to Mylar® OLAF and OLAT). Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-OL2-Polyester-Film-100-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	Typical Mylar®; ASTM D1505
Water Vapor Transmission	20.2 g/m ² /day @Temperature 38.0 °C	1.30 g/100 in ² /day @Temperature 100 °F	90% RH; ASTM F1249

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	110 %	110 %	ASTM D882A
Film Elongation at Break, TD	80 %	80 %	ASTM D882A
Tensile Modulus	3.79 GPa	550 ksi	ASTM D882

Graves Tear Strength Mechanical Properties	0.193 kN/m Metric	1.10 psi English	ASTM D1004 Comments
Film Tensile Strength at Break, MD	172 MPa	25000 psi	ASTM D882A
Film Tensile Strength at Break, TD	241 MPa	35000 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

Optical Properties	Metric	English	Comments
Refractive Index	1.64 - 1.67	1.64 - 1.67	typical of Mylar®

Descriptive Properties	Value	Comments
Gas Permeability (Base film)	5 cc/100 in ²	O2, 24 hr; ASTM D3985 77°F/75% RH/1 ATM
Yield (nominal)	19600 in ² /lb	

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