

DuPont Teijin Films Mylar® OB13AF Polyester Film, 100 Gauge

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

Material Notes:

Product Description: Mylar® OB13AF is a biaxially oriented polyester (OPET) film with an amorphous polyester heat seal layer on one side and a polyvinylidene chloride (PVdC) layer on the opposite side. The PVdC layer has a release topcoat to prevent sticking to seal platen/bar.

Mylar® OB13AF is essentially Mylar® OL13AF with a barrier layer. It is used as a heat sealable lidding film in packaging refrigerated and frozen foods. Mylar® OB13AF is commercially available in nominal 100 and 150 gauges. Mylar® OB13AF is dual ovenable film which provides strong, aggressive seals to polar substrates such as amorphous polyester (APET, also PETG), semicrystalline polyester (CPET), polyester coated paperboard, and polyvinylchloride (PVC). Strongest seals are achieved by heat sealing at 400°F. Mylar® OB13AF does not seal to polyethylene, polypropylene, or polystyrene. DuPont Teijin Films offers another family of lidding films (RB types) for sealing to these substrates. Mylar® OB13AF is similar to Mylar® OB12AF but has a thicker heat seal layer than Mylar® OB12AF to give enhanced seal strength. In general, Mylar® OB13AF can produce non-peeling, near "lock-up" type seals and is recommended for hot-fill applications where non-peeling seals are desired. It also can be used in some "post-pasteurized" (steam sterilization) applications where pressure balance in package can be properly controlled (via vacuum or overpressure). Mylar® OB13AF lidding films have excellent grease and oil resistance. Mylar® OB13AF is recommended for applications needing a lidding film which heat seals like Mylar® OL13AF, but also has much lower permeability to gases (oxygen, carbon dioxide) and moisture. Mylar® OB13AF 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. The oriented polyester base film will begin to distort in the range of 425-450°F.

Corona Treatment: Mylar® OB13AF is not available with corona treatment.

Anti-Fog: Mylar® OB13AF lidding films come with anti-fogging capability to provide better clarity when stored and displayed in refrigerated conditions.

Approvals: FDA Food Contact Status - FDA Food Contact Status - Mylar® OB13AF polyester film complies with the U.S. Food and Drug Administration Regulation 21CFR 177.1630 for use in contact with all types of foods, excluding alcoholic beverages. The amorphous polyester heat seal side of Mylar® OB13AF complies with FDA regulations for contact with food at food temperatures above 250°F.

Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-OB13AF-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	0.776 g/m ² /day @Temperature 38.0 °C	0.0500 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	0.193 kN/m	1.10 pli	ASTM D1004

Film Tensile Strength at Break, MD Mechanical Properties	172 MPa Metric	25000 psi English	ASTM D882A Comments
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
Maximum Service Temperature, Air	204 °C	400 °F	
Maximum Service Temperature, Inert	-40.0 °C	-40.0 °F	

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)	0.5 cc/100 in ²	O ₂ , 24 hr; ASTM D3985 77°F/75% RH/1 ATM
Yield (nominal)	15700 in ² /lb	

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