

DuPont Teijin Films Mylar® OB12 Polyester Packaging Film, 50 Gauge

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

Material Notes:

Data provided by DuPont Packaging Polymers. Mylar® OB12 is a biaxially oriented polyester (OPET) film with an amorphous polyester heat seal layer and polyvinylidene chloride (PVDC) layer on the opposite side of the film from the heat seal layer. Mylar® OB12 is essentially Mylar® OL12 with a barrier layer. Mylar® OB12 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). Mylar® OB12 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® OB12 has higher hot tack and a thicker seal layer than either Mylar® OB02 or OL2, and can be used in hot fill applications. It is not recommended for applications requiring retort sterilization. Mylar® OB12 lidding films have excellent grease and oil resistance. Heat seals produced with Mylar® OB12 are stronger than with Mylar® OL2 and may be difficult to peel without shredding at any gauge. Mylar® OB12 is recommended for applications needing a lidding film which heat seals like Mylar® OL12, but with much lower permeability to gases (oxygen, carbon dioxide) and moisture.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-OB12-Polyester-Packaging-Film-50-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	Calculated from nominal thickness and yield
Moisture Vapor Transmission	0.140 cc-mm/m ² -24hr-atm	0.356 cc-mil/100 in ² -24hr-atm	Proc. E; ASTM E96
Oxygen Transmission	0.140 cc-mm/m ² -24hr-atm	0.356 cc-mil/100 in ² -24hr-atm	Tested per ASTM D3985 at 22°C

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	110 %	110 %	ASTM D882
Film Elongation at Break, TD	80 %	80 %	ASTM D882
Secant Modulus	3.79 GPa	550 ksi	Stiffness Modulus; ASTM D882
Tear Strength Test	0.70	0.70	lb Graves; ASTM D1004
Film Tensile Strength at Break, MD	172 MPa	24900 psi	ASTM D882
Film Tensile Strength at Break, TD	241 MPa	35000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	204 °C	399 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	

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