

DuPont Teijin Films Mylar® RB42AF Polyester Film, 100 Gauge

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

Material Notes:

Product Description: Mylar® RB42AF is a biaxially oriented polyester (OPET) film with an ethylene vinyl acetate (EVA) heat seal layer and polyvinylidene chloride (PVdC) layer on the opposite side. Mylar® RB42AF is essentially Mylar® RL42AF with a barrier layer. It is used as a heat sealable lidding film in packaging frozen and refrigerated foods. Mylar® RB42AF is commercially available in nominal 100 gauge. Mylar® RB42AF is designed to produce strong seals to polypropylene (PP). Although designed especially to seal to polypropylene, Mylar® RB42AF seals to a broad range of container substrates including amorphous polyester (APET, also PETG), semicrystalline polyester (CPET), polyester coated paperboard, polyvinylchloride (PVC), polyethylene (HDPE), and polystyrene (HIPS). Mylar® RB42AF produces a stronger seal to polypropylene than Mylar® RB5. Like Mylar® RL42, Mylar® RB42AF can produce tearing seals to polypropylene and other substrates under chilled conditions. Like the other "RL" types with EVA heat seal layer, Mylar® RB42AF has a lower seal initiation temperature than lidding films with an amorphous polyester heat seal layer (e.g., Mylar® OL, OL2). This allows good seals to be made at higher line speeds (or using lower sealing temperatures). Mylar® RB42AF can withstand freezing temperatures down to -40°F and foods can be heated or cooked in contact with this film if food temperatures do not exceed 250°F. The oriented polyester base film will begin to distort in the range of 425-450°F. **Special Features:** Corona Treatment: Mylar® RB42AF is not available with corona treatment. However, the PVdC surface of the film is suitable for printing and laminating. Anti-fog: Mylar® RB42AF lidding films come with anti-fogging capability to provide better clarity when stored and displayed in refrigerated conditions. **Approvals:** FDA Food Contact Status - All gauges of Mylar® RB42AF comply with the Food and Drug Administration regulation 21 CFR 177.1630 -- Polyethylene phthalate polymers, Sections (f) and (g). This regulation describes films which may be safely used in contact with all types of food, excluding alcoholic beverages, at temperatures not to exceed 250°F. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-RB42AF-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	7.76 g/m ² /day @Temperature 38.0 °C	0.500 g/100 in ² /day @Temperature 100 °F	90% RH; ASTM F1249

Mechanical Properties	Metric	English	Comments
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	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®

Thermal Properties	Metric	English	Comments
			ar® via DSC
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)	16800 in ² /lb		

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