

DuPont Teijin Films Mylar® RB52 Polyester Film, 50 Gauge

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

Material Notes:

Product Description: Mylar® RB52 is a biaxially oriented polyester (OPET) film with an ethylene vinyl acetate (EVA) heat seal layer on one side and a polyvinylidene chloride (PVdC) layer on the opposite side. Mylar® RB52 is essentially RL52 with a barrier layer. It is used as a heat sealable lidding film in packaging frozen and refrigerated foods. Mylar® RB52 is available in nominal 50 gauge. Mylar® RB52 is designed to seal 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). However, Mylar® RB52 produces weak seals to polypropylene at lower seal temperatures (below 350°F) - especially under chilled conditions, and therefore is not recommended. (RL "40 Series" is recommended for these applications. Mylar® RB52 has the same type heat seal layer as Mylar® RL51, but the thickness of the heat seal layer and the heat seal strengths of Mylar® RB52 are intermediate between Mylar® RL51 and Mylar® RL53. RB52 produces more ductile seals under refrigerated or frozen conditions and seals better to polystyrene containers than either RL32 or RL42. Like RL51, Mylar® RB52 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® RB52 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® RB52 is not available with corona treatment on the opposite side of film from the heat seal layer. However, the PVdC surface already on that side of the film is suitable for printing and laminating.

Approvals: FDA Food Contact Status - Mylar® RB52 polyester film complies with the U.S. Food and Drug Administration Regulation 21 CFR 177.1630 for use in contact with all types of food, excluding alcoholic beverages, at food 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-RB52-Polyester-Film-50-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
Coating Weight	25.9 g/m ²	16.2 lb/ream	0.5 m ^{<sup>2</sup>} ; ASTM E252

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	0.123 kN/m	0.700 pli	ASTM D1004
Film Tensile Strength at Break, MD	172 MPa	25000 psi	ASTM D882A

Film Tensile Strength at Break, TD Mechanical Properties	241 MPa Metric	35000 psi English	ASTM D882A Comments
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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

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)	26000 in ² /lb	

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