

DuPont Teijin Films Mylar® RB43 Polyester Film, 100 Gauge

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

Material Notes:

Mylar® RB43 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® RB43 is essentially Mylar® RL43 with an additional barrier layer. It is used as a heat sealable lidding film in packaging frozen and refrigerated foods. Mylar® RB43 is commercially available in nominal 50 and 100 gauges. Mylar® RB43 is designed to produce strong heat seals to polypropylene (PP). Although designed especially to seal to polypropylene, Mylar® RB43 will produce strong 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® RB43 has the same type heat seal layer as Mylar®XRB567, but the seal layer is thicker and produces somewhat stronger heat seals to most substrates. Like Mylar® RL43, RB43 produces the highest seal strengths to polypropylene of the Mylar® lidding films and tends to produce tearing seals to non-polar substrates under chilled conditions. Mylar® RB43 is recommended when light caulking is needed. Mylar® RB43, like other RL types, 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® RB43 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. Mylar® RB43 is not available with corona treatment on the opposite side of the 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 - All gauges of Mylar® RB43 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-RB43-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
Coating Weight	44.3 g/m ²	27.7 lb/ream	0.5 m ² ; 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
Secant Modulus, MD	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 Mechanical Properties	241 MPa Metric	35000 psi English	ASTM D882A Comments
---	-------------------	----------------------	------------------------

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)	15600 in ² /lb	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China