

DuPont Teijin Films Mylar® RL42 Polyester Packaging Film, 50 Gauge

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

Material Notes:

Data provided by DuPont Packaging Polymers. Mylar® RL42 (formerly known as XM985) is a biaxially oriented polyester (OPET) film with an ethylene vinyl acetate (EVA) heat seal layer. It is used as a heat sealable lidding film in packaging frozen and refrigerated foods. Mylar® RL42 is designed to produce strong seals to polypropylene (PP). Although designed especially to seal to polypropylene, Mylar® RL42 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® RL42 has the same heat seal layer thickness as Mylar® RL32, but produces a stronger seal to polypropylene. Mylar® RL42 can produce tearing seals to polypropylene and other substrates under chilled conditions. Like the other "RL" types with EVA heat seal layer, Mylar® RL42 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).

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-RL42-Polyester-Packaging-Film-50-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	Calculated from nominal thickness and yield
Moisture Vapor Transmission	0.840 cc-mm/m ² -24hr-atm	2.13 cc-mil/100 in ² -24hr-atm	Proc. E; ASTM E96
Oxygen Transmission	2.69 cc-mm/m ² -24hr-atm	6.83 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	121 °C	250 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	

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