

DuPont Teijin Films Mylar® RL4 Polyester Packaging Film, 50 Gauge

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

Material Notes:

Data provided by DuPont Packaging Polymers. Mylar® RL4 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® RL4 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), polypropylene (PP), and polystyrene (HIPS). The thickness of the heat seal layer and the heat seal strength of Mylar® RL4 is intermediate between Mylar® RL31 and Mylar® RL33. Mylar® RL4 and Mylar® RL32 produce similar heat seal strengths to most substrates, but Mylar® RL32 has a greater tendency to produce tearing seals while Mylar® RL4 tends to produce more peelable seals. Mylar® RL4 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-RL4-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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