

DuPont Teijin Films Mylar® RL43 Polyester Packaging Film, 50 Gauge

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

Material Notes:

Data provided by DuPont Packaging Polymers. Mylar® RL43 is a biaxially oriented polyester (OPET) film with an ethylene vinyl acetate (EVA) heat seal layer. Mylar® RL43 is designed to produce strong heat seals to polypropylene (PP). Although designed especially to seal to polypropylene, Mylar® RL43 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® RL43 has the same type heat seal layer as Mylar® RL42, but the seal layer is thicker than Mylar® RL42. Mylar® RL43 produces the highest seal strengths to polypropylene of Mylar® lidding films and tends to produce tearing seals to non-polar substrates under chilled conditions. Mylar® RL43 is recommended when light caulking is needed. Mylar® RL43, 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).

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-RL43-Polyester-Packaging-Film-50-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	Calculated from nominal thickness and yield
Moisture Vapor Transmission	0.980 cc-mm/m ² -24hr-atm	2.49 cc-mil/100 in ² -24hr-atm	Proc. E; ASTM E96
Oxygen Transmission	3.15 cc-mm/m ² -24hr-atm	8.00 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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