DuPont Teijin Films Mylar® CL Polyester Film, 50 Gauge

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

Material Notes:

Mylar® CL is an exceptionally strong polyester film designed to package foods. Foods can be heated or cooked in this film at temperatures up to 400°F. Mylar® CL is commercially available in nominal 50 and 100 gauges. The film is typically provided with the sealant side wound toward the core. General Product Info: This film is similar to Mylar® OL2, however, this film will have much stronger seals at temperatures above 180°F than OL2. This film withstands freezing temperatures down to -40°F. Mylar® CL softens in the range of 425°-450°F.Typical Applications: This film when laminated to foil makes an excellent inner cap seal for PET jars. This film is also suitable for heating food products in microwave or conventional ovens.Approvals: FDA Food Contact Status - All gauges of Mylar® CL comply with the Food and Drug Administration regulation 21 CFR 177.1630 -- Polyethylene phthalate polymers. This regulation describes films which may be safely used in contact with all types of food excluding alcoholic beverages. Uncoated films such as Mylar® CL can be used to contain foods during oven cooking or oven baking at temperatures above 250 °F.Information provided by DuPont.

Order this product through the following link:
http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-CL-Polyester-Film-50-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in³	Typical Mylar®; ASTM D1505
Water Vapor Transmission	9.31 g/m²/day @Temperature 38.0 °C	0.600 g/100 in²/day @Temperature 100 °F	90% RH; ASTM F1249
Coating Weight	18.7 g/m²	11.7 lb/ream	0.5 m²; E252

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	100 %	100 %	ASTM D882A
Film Elongation at Break, TD	70 %	70 %	ASTM D882A
Tensile Modulus	3.45 GPa	500 ksi	ASTM D822
Film Tensile Strength at Break, MD	186 MPa	27000 psi	ASTM D882A
Film Tensile Strength at Break, TD	228 MPa	33000 psi	ASTM D882A
Heat Seal Strength	150 g/25 mm @Time 0.500 sec, Pressure 0.138 MPa	0.331 lb/in @Time 0.000139 hour, Pressure 20.0 psi	250°F

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

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	
Maximum Service Temperature, Inert	-40.0 °C	-40.0 °F	
Shrinkage, MD	1.5 % @Temperature 150 °C, Time 1800 sec	1.5 % @Temperature 302 °F, Time 0.500 hour	Unrestrained
Shrinkage, TD	2.0 % @Temperature 150 °C, Time 1800 sec	2.0 % @Temperature 302 °F, Time 0.500 hour	Unrestrained

Optical Properties	Metric	English	Comments
Refractive Index	1.64 - 1.67	1.64 - 1.67	typical of Mylar®
Haze	7.0 %	7.0 %	ASTM D1003

Descriptive Properties	Value	Comments
Gas Permeability (Base film)	.6 cc/100 in^2	O2, 24 hr; ASTM D3985 (77°F/75% RH/1 ATM)
Yield (nominal)	36900 in^2/lb	

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