

## DuPont Teijin Films Mylar® CL Polyester Film, 100 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-100-Gauge.php](http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-CL-Polyester-Film-100-Gauge.php)

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in <sup>3</sup>	Typical Mylar®; ASTM D1505
Water Vapor Transmission	20.2 g/m <sup>2</sup> /day	1.30 g/100 in <sup>2</sup> /day	E96 Procedure E
Coating Weight	34.9 g/m <sup>2</sup>	21.8 lb/ream	0.5 m<sup>2</sup>; E252

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	140 %	140 %	ASTM D882
Film Elongation at Break, TD	80 %	80 %	ASTM D882
Tensile Modulus	3.79 GPa	550 ksi	ASTM D822
Graves Tear Strength	0.123 kN/m	0.700 pli	ASTM D1004
Film Tensile Strength at Break, MD	186 MPa	27000 psi	ASTM D882
Film Tensile Strength at Break, TD	276 MPa	40000 psi	ASTM D882
Heat Seal Strength	250 g/25 mm @Time 0.250 sec, Pressure 0.0345 MPa	0.551 lb/in @Time 0.0000694 hour, Pressure 5.00 psi	120°C, 35% RH

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	

Optical Properties	Metric	English	Comments
Refractive Index	1.64 - 1.67	1.64 - 1.67	typical of Mylar®

Descriptive Properties	Value	Comments
Gas Permeability (Base film)	5 cc/100 in <sup>2</sup>	O <sub>2</sub> , 24 hr; ASTM D3985 (77°F/75% RH/1 ATM)
Yield (nominal)	19900 in <sup>2</sup> /lb	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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