

DuPont Teijin Films Mylar® HS Polyester Film, 80 Gauge (20 µm)

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

Material Notes:

Data provided by DuPont Packaging Polymers. An uncoated, transparent polyester packaging film designed for heat shrink applications. It is currently available in 48, 65, 80, and 150 gauges, and other thicknesses may be made available upon request. Adhesive seamed, heat shrinkable tubing and contour bottom heat shrinkable bags made from unsupported Mylar HS, and heat shrinkable heat sealed tubing and bags made from laminations of Mylar HS and a suitable sealant web, are used for packaging.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-HS-Polyester-Film-80-Gauge-20-m.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	Average value for Mylar® films.
Moisture Vapor Transmission	0.500 cc-mm/m ² -24hr-atm	1.27 cc-mil/100 in ² -24hr-atm	ASTM E96 Procedure E
Water Vapor Transmission	26.0 g/m ² /day	1.67 g/100 in ² /day	ASTM E96 Procedure E
Oxygen Transmission	2.20 cc-mm/m ² -24hr-atm	5.59 cc-mil/100 in ² -24hr-atm	or 110 cc/m ² -24hr-atm for the film. ASTM D3985

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	150 %	150 %	ASTM D882
Film Elongation at Break, TD	110 %	110 %	ASTM D882
Modulus of Elasticity	3.10 GPa	450 ksi	(stiffness), ASTM D882
Film Tensile Strength at Break, MD	214 MPa	31000 psi	ASTM D882
Film Tensile Strength at Break, TD	234 MPa	33900 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	121 °C	250 °F	May be used to contain foods during baking above this temperature.
Shrinkage, MD	0.45 % @Temperature 150 °C, Time 1800 sec	0.45 % @Temperature 302 °F, Time 0.500 hour	Film shrinkage in oven.
Shrinkage, TD	0.50 % @Temperature 150 °C, Time 1800 sec	0.50 % @Temperature 302 °F, Time 0.500 hour	Film shrinkage in oven.

Optical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments ¹³
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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