

DuPont Teijin Films Mylar® M461 Polyester Film, 48 Gauge

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

Material Notes:

Mylar® M461 is a tough, general purpose, untreated polyester film. It is transparent in 48 through 300 gauge and translucent in heavier gauges. Mylar® M461 is based on DuPont Teijin Film's RSX film type. Mylar® M461 has balanced tensile properties and excellent resistance to moisture and most chemicals. It can withstand temperature extremes from -94 to 302°F. Mylar® M461 does not become brittle with age under normal conditions because it does not contain plasticizers. Typical Applications: Mylar® M461 film is used primarily as a base for pressure sensitive tapes. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-M461-Polyester-Film-48-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	Typical Mylar®; ASTM D1505

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	115 %	115 %	ASTM D882A
Film Tensile Strength at Break, MD	172 MPa	25000 psi	ASTM D882A
Film Tensile Strength at Break, TD	228 MPa	33000 psi	ASTM D882A

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
Maximum Service Temperature, Air	150 °C	302 °F	
Maximum Service Temperature, Inert	-70.0 °C	-94.0 °F	
Shrinkage, MD	2.3 % @Temperature 150 °C, Time 1800 sec	2.3 % @Temperature 302 °F, Time 0.500 hour	Unrestrained
Shrinkage, TD	1.4 % @Temperature 150 °C, Time 1800 sec	1.4 % @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	4.0 %	4.0 %	ASTM D1003

Transmission Visible Optical Properties	90 % Metric	90 % English	transparent; thickness not quantified Comments
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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