

DuPont Teijin Films Mylar® DS Polyester Film

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

Material Notes:

Mylar® DS is a super clear, biaxially oriented, polyester film with differential surface roughness on each side. Its unique composition, consisting of a smooth side opposite a rougher, filled side, allows for a high clarity product with superior handling characteristics. Mylar® DS is suitable for a broad range of applications including high-speed metallization, lamination, and coating. Please contact a DuPont Teijin Films representative to inquire about regulatory approvals for the DS products. Mylar® DS1 is 1-side treated on the smooth side for adhesion promoting. Mylar® DS1A is 1-side treated on the rough side for adhesion promoting. Mylar® DS2 is treated on both sides for adhesion promoting. Approvals: Approvals - Please contact a DuPont Teijin Films representative to inquire about regulatory approvals for the DS products. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-DS-Polyester-Film.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	140 %	140 %	ASTM D882A
Film Elongation at Break, TD	100 %	100 %	ASTM D882A
Coefficient of Friction, Static	0.40	0.40	A-B; ASTM D1894
Film Tensile Strength at Break, MD	193 MPa	28000 psi	ASTM D882A
Film Tensile Strength at Break, TD	221 MPa	32000 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
Shrinkage, MD	3.0 % @Temperature 190 °C, Time 300 sec	3.0 % @Temperature 374 °F, Time 0.0833 hour	Unrestrained
Shrinkage, TD	1.0 % @Temperature 190 °C, Time 300 sec	1.0 % @Temperature 374 °F, Time 0.0833 hour	Unrestrained

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

Optical Properties	Metric	English	Comments
Haze	@Thickness 0.0234 mm	@Thickness 0.000920 in	ASTM D1003
	1.2 % @Thickness 0.0361 mm	1.2 % @Thickness 0.00142 in	ASTM D1003
	1.4 % @Thickness 0.0508 mm	1.4 % @Thickness 0.00200 in	ASTM D1003

Descriptive Properties	Value	Comments
Yield (nominal)	13970 in ² /lb	142 Gauge
	21800 in ² /lb	92 Gauge
	9900 in ² /lb	200 Gauge

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