DuPont Teijin Films Mylar® S1 Polyester Film, 35 Gauge

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

Material Notes:

Mylar® S1 films are slightly hazy with surfaces tailored to provide excellent handling and product functionality for a variety of industrial end uses. The outstanding tensile properties and thermal stability typical of Mylar® S1 films are maintained through all gauges offered.General Product Info: Mylar® S1 films have balanced tensile properties with a service range of -94 to 302°F. They are extremely resistant to most chemicals and aging embrittlement.Typical Applications: Decorative metalizingTape substratesFlexible ductingBook jacket laminationsRelease sheetPhoto substratesPressure-sensitive tapeThermal reflectorsProtective surfacingCarbon-coated ribbonPhoto resistStationery suppliesMicroformsInformation provided by DuPont.

Order this product through the following link:
http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-S1-Polyester-Film-35-Gauge.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in³	Typical Mylar®; ASTM D1505

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	125 %	125 %	ASTM D882A
Film Tensile Strength at Break, MD	200 MPa	29000 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	2.1 % @Temperature 150 °C, Time 1800 sec	2.1 % @Temperature 302 °F, Time 0.500 hour	Unrestrained
Shrinkage, TD	1.1 % @Temperature 150 °C, Time 1800 sec	1.1 % @Temperature 302 °F, Time 0.500 hour	Unrestrained

Optical Properties	Metric	English	Comments
Haze	8.0 %	8.0 %	ASTM D1003

Descriptive Properties	Value	Comments

Descriptive Properties	Value	Comments
Yield (nominal)	56600 in^2/lb	

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