

DuPont Teijin Films Mylar® AHS1 Polyester Film, 92 Gauge

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

Material Notes:

Mylar® AHS1 is a strong, tough, and durable PET film with an unusual balance of properties. It is used for many industrial and electrical applications. General Product Info: Mylar® AHS1 has a tensile strength that averages 28,000 psi, has excellent resistance to moisture and most chemicals, and exceptional durability in high-temperature environments. Because it contains no plasticizers Mylar® AHS1 does not become brittle with age under normal conditions. Typical Applications: Mylar® AHS1 is a unique product whose shrinkage and high resistance to deformation make it well suited for applications such as carbon ribbons and electrical insulation. Approvals: UL 94 VTM-2 - for 92 - 500 gauge (0.023 - 0.13mm) Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Teijin-Films-Mylar-AHS1-Polyester-Film-92-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	100 %	100 %	ASTM D882A
Film Tensile Strength at Break, MD	193 MPa	28000 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

Optical Properties	Metric	English	Comments
Refractive Index	1.64 - 1.67	1.64 - 1.67	typical of Mylar®
Haze	17.5 %	17.5 %	ASTM D1003

Electrical Properties	Metric	English	Comments
Dielectric Strength	192.6 kV/mm	4891 kV/in	1/4" electrode 500 V/sec 25°C in air; ASTM D149
Dielectric Breakdown	4500 V	4500 V	1/4" electrode 500 V/sec 25°C in air; ASTM D149

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