

Mylar®

polyester film

Type EL-21 750–1400 Gauge

Product Description

Mylar® polyester films are flexible, strong, and durable films with an unusual balance of properties, making them suitable for a variety of industrial applications. The excellent dielectric strength, moisture resistance, and physical toughness make Mylar® a very versatile and functional insulating material.

Typical Properties

Mylar® films offer high dielectric strength, good chemical resistance, and exceptional durability in high-temperature environments.

Applications

Type EL-21 films, similar to Type MO films, are heavy gauge insulating films designed for general-purpose electrical/electronic applications, such as transformers, laminates, bus bars, and punched parts.

Typical Values for Major Properties

Nominal Thickness, μm (Gauge)	Tensile Strength MD/TD,* kg/mm^2 (kpsi)	Elongation MD/TD,* %	Dimensional Stability MD/TD,* % Shrinkage	Opacity, %	Density, g/cm^3	Dielectric Strength (AC), kV (Min.)
188 (750)	19/21 (27/30)	140/115	1.6/0.9	38	1.3928	17.5
225 (900)	19/20 (27/29)	150/130	1.6/1.1	41	1.3920	18.4
250 (1,000)	19/20 (27/29)	150/140	1.5/1.1	42	1.3925	19.0
350 (1,400)	18/17 (26/25)	170/170	1.3/0.8	46	1.3925	20.0

*MD = Machine Direction, TD = Transverse Direction

Ordering Information

Slit Rolls

Standard Roll Size

ID, cm (in)	OD, cm (in)
7.6 (3)	33 (13)
7.6 (3)	41 (16)
7.6 (3)	46 (18)

Approximate Length for 7.6 cm (3 in) ID × 33 cm (13 in) OD Roll

Nominal Thickness, μm (Gauge)	Nominal Length, m (ft)
188 (750)	415 (1,360)
225 (900)	350 (1,140)
250 (1,000)	310 (1,020)
350 (1,400)	220 (730)

Master Rolls

Master rolls are much longer lengths, splice-free, and available on 25.4 cm (10 in) ID cores. Master rolls are available in selected widths in minimum order quantities of 15,900 kg (35,000 lb) per order, with a minimum of 4,540 kg (10,000 lb) per item.

Approximate Length for Master Rolls

Nominal Thickness, μm (Gauge)	Nominal Length, m (ft)
188 (750)	1,650 (5,400)
225 (900)	1,380 (4,520)
250 (1,000)	1,240 (4,070)
350 (1,400)	870 (2,850)

DuPont Teijin Films
Barley Mill Plaza
Wilmington, DE 19880-0027
Product Information: (800) 635-4639
Fax: (302) 992-5453

These values are typical performance data for Mylar® polyester film; they are not intended to be used as design data. We believe this information is the best currently available on the subject. It is offered as a possible helpful suggestion in experimentation you may care to undertake along these lines. It is subject to revision as additional knowledge and experience is gained. DuPont Teijin Films makes no guarantee of results and assumes no obligation or liability whatsoever in connection with this information. This publication is not a license to operate under, or intended to suggest infringement of, any existing patents.

CAUTION: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Medical Caution Statement," H-50102.