



Mylar®

polyester film

Type EL 48–500 Gauge

Product Description

Mylar® Type EL films, typically 48 through 500 gauge, are strong, tough, general-purpose films for electrical/electronic uses. Heavier gauges of Type EL films are similar to Type MO films. Available in grades from clear to hazy, Type EL films offer chemical inertness, good dielectrics, high temperature durability, and good handling characteristics.

Applications

The outstanding strength, flexibility, and electrical properties of Type EL films make them well suited for many electrical and electronic applications. The good handling and winding characteristics make them especially suitable for coating, die cutting, embossing, and laminating operations.

Typical Properties

The good electrical, mechanical, thermal, and chemical inertness characteristics of Mylar® Type EL films make them ideal for electrical and electronic applications.

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	Haze, %	Dielectric Strength (AC), kV (Min.)
12 (48)	18/22 (26/32)	110/70	2.0/1.0	4	2.8
19 (75)	20/24 (28/34)	110/90	2.0/1.1	15	3.5
23 (92)	20/24 (28/34)	110/90	1.9/1.1	16	4.0
36 (142)	20/24 (28/34)	125/100	1.5/1.0	18	5.5
50 (200)	20/23 (28/33)	135/110	1.3/0.8**	24	7.7
75 (300)	19/22 (27/31)	135/110	1.2/0.8**	29	10.0
100 (400)	18/21 (26/30)	140/115	1.1/0.7**	37	11.7
125 (500)	19/21 (27/30)	140/115	1.1/0.7**	43	13.5

*MD = Machine Direction, TD = Transverse Direction

**Type EL films with lower shrinkage levels are available as Type EC.

Ordering Information

Slit Rolls

Standard Roll Size

ID, cm (in)	OD, cm (in)		ID, cm (in)	OD, cm (in)
7.6 (3)	24 (9½)	48–500 gauge	15.2 (6)	28 (11)
7.6 (3)	33 (13)	48–500 gauge	15.2 (6)	36 (14)
7.6 (3)	41 (16)	48 gauge only	15.2 (6)	42 (16½)
7.6 (3)	46 (18)	92–500 gauge only	15.2 (6)	46 (18)

Approximate Length for 7.6 cm (3 in) ID × 24 cm (9.5 in) OD Roll

Nominal Thickness, μm (Gauge)	Nominal Length, m (ft)
12 (48)	3,230 (10,500)
19 (75)	2,040 (6,700)
23 (92)	1,650 (5,400)
36 (142)	1,070 (3,500)
50 (200)	760 (2,500)
75 (300)	500 (1,650)
100 (400)	380 (1,250)
125 (500)	300 (1,000)

Approximate Length for Master Rolls

Nominal Thickness, μm (Gauge)	Nominal Length, m (ft)
12 (48)	19,200 (63,000)*
19 (75)	18,000 (59,000)*
23 (92)	14,500 (47,700)
36 (142)	9,330 (30,600)
50 (200)	6,690 (21,950)
75 (300)	4,470 (14,650)
100 (400)	3,350 (10,980)
125 (500)	2,700 (8,850)

*10% of the 48 and 75 gauge Master Rolls may have one splice.

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.

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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 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.



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