

Mylar®

polyester film

Type A 48–1400 Gauge

Product Description

Mylar® Type A films are tough, general-purpose films that are transparent in 48 through 92 gauge and translucent in heavier gauges. They have a rough surface to provide ease of handling, good adhesion, and processibility. They are used for a broad range of industrial applications.

Applications

Mylar® Type A films are used extensively in a wide variety of markets. Some of them are:

Apparel stays	Metallized base
Book jackets	Pressure sensitive labels
Carbon ribbon	Plain
Control tape	Metallized
Drumheads	Protective surfacing
Duct liners	Release liners
Identification	Roll leaf (hot stamping)
Membrane touch switches	Spirit masters

Typical Properties

Mylar® Type A films have balanced tensile properties and excellent resistance to moisture and most chemicals. They can withstand temperature extremes from –70 to 150°C (–94 to 302°F). Mylar® does not become brittle with age under normal conditions, because it contains no plasticizers.

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 (Opacity), %
12 (48)	18/22 (26/32)	110/70	2.0/1.0	4
19 (75)	20/24 (28/34)	110/90	2.0/1.1	15
23 (92)	20/24 (28/34)	110/90	1.9/1.1	16
36 (142)	20/24 (28/34)	125/100	1.5/1.0	18
50 (200)	20/23 (28/33)	135/110	1.3/0.8	24
75 (300)	19/22 (27/31)	135/110	1.2/0.8	29
100 (400)	18/21 (26/30)	140/115	1.1/0.7	37
125 (500)	19/21 (27/30)	140/115	1.1/0.7	43
188 (750)	19/21 (27/30)	140/115	1.6/0.9	(38)
225 (900)	19/20 (27/29)	150/130	1.6/1.1	(41)
250 (1,000)	19/20 (27/29)	150/140	1.5/1.1	(42)
350 (1,400)	18/17 (26/25)	170/170	1.3/0.8	(46)

*MD = Machine Direction, TD = Transverse Direction

Ordering Information

Slit Rolls

Standard Roll Size

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

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 minimum order quantities of 4,540 kg (10,000 lb) per item.

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)	3,200 (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)
188 (750)	200 (650)
225 (900)	170 (550)
250 (1,000)	150 (500)
350 (1,400)	100 (350)

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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 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.