

# Mylar®

polyester film

## Type D and D1 300–1000 Gauge

### Product Description

Mylar® Type D films in gauges 300 through 1000 are clear, brilliant films, which are surface-treated on both sides to provide superior slip and handling qualities.

In addition, a family of super clear Type D1 films, surface-treated on one side with a slip-promoting ingredient, are also available.

### Applications

Heavy gauge Mylar® Type D films are well accepted for microfilm, graphic arts, and industrial uses. Successful applications include:

Microfilms	Labels
Microfilm jackets	Overhead transparencies
Layout base	Strip coat
Membrane switches	Stationery supplies
Protective glazing	Graphic arts

Mylar® Type D1 films may be used for the above end uses; however, they are specifically designed for metallizing applications where metallized brilliance is required. Other uses include labels, decals, over-laminates, and decorative laminations where superior optical characteristics are essential.

### Typical Properties

The brilliance and clarity of heavy gauge Mylar® Type D/D1 films enhance the appearance of some end products, and its toughness and dimensional stability help ensure a long, troublefree service life.

Typical Values for Major Properties

Nominal Thickness, $\mu\text{m}$ (Gauge)	Actual Thickness, $\text{cm} \times 10^{-5}$ (in $\times 10^{-5}$ )	Haze, %	Total Transmission, %	Coefficient of Friction* (Static)		Dimensional Stability MD/TD,** % Shrinkage	Tensile Strength MD,** $\text{kg}/\text{mm}^2$ (kpsi)
		ASTM D1003	ASTM D1003	ASTM D	D1894 D1	150°C (302°F)/ 30 min	ASTM D882A
75 (300)	700 (275)	0.3	90	0.40	0.50	1.5/0.5	20 (28)
100 (400)	950 (375)	0.4	90	0.40	0.50	1.5/0.5	20 (28)
107 (430)	1,090 (430)	0.4	90	0.40	0.50	1.5/0.5	20 (28)
125 (500)	1,200 (470)	0.5	90	0.40	0.50	1.5/0.5	20 (28)
160 (640)	1,630 (640)	0.9	90	0.40	0.50	1.5/0.5	19 (27)
175 (700)	1,760 (692)	1.0	89	0.40	0.50	1.5/0.5	18 (26)
250 (1,000)	2,540 (1,000)	2.0	88	0.40	0.50	1.5/0.5	18 (26)

\*Film to Film

\*\*MD = Machine Direction, TD = Transverse Direction

## Ordering Information

### Slit Rolls

Standard Roll Size  
Nominal Length, m (ft)

15.2 cm (6 in) ID Nominal OD				
$\mu\text{m}$ (Gauge)	28 cm (11 in) Single	36 cm (14 in) Double	42 cm (16.5 in) Triple	46 cm (18 in) Quad
75 (300)	550 (1,800)	1,090 (3,560)	1,630 (5,340)	2,000 (6,550)
100 (400)	410 (1,345)	810 (2,650)	1,220 (3,980)	1,490 (4,890)
107 (430)	360 (1,170)	700 (2,300)	1,050 (3,450)	1,290 (4,230)
125 (500)	330 (1,070)	650 (2,120)	970 (3,180)	1,190 (3,900)
160 (640)	240 (780)	470 (1,540)	710 (2,320)	870 (2,840)
175 (700)	220 (720)	430 (1,420)	650 (2,140)	800 (2,620)
250 (1,000)	150 (500)	300 (995)	450 (1,490)	560 (1,830)

All rolls 15 in (381 mm) and wider are edge-treated to provide improved handling.

### Master Rolls

Master rolls are much longer lengths, splice-free, and available on 15.2 cm (6 in) and 25.4 cm (10 in) cores. Master rolls are available 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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DuPont Teijin Films  
Barley Mill Plaza  
Wilmington, DE 19880-0027  
Product Information: (800) 635-4639  
Fax: (302) 992-5453

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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.