

Mylar®

polyester film

Type MO, 500 Gauge and Type MO 21, 750–1400 Gauge

Product Description

Mylar® Type MO films are strong, heavy gauge films that have excellent electrical properties. These films offer exceptional cut-through resistance, low shrinkage, low moisture absorption, and high thermal durability. Type MO films are used as insulation in systems that have been given Class B ratings by UL. Low extractables make these films suitable for insulation in sealed motor/compressor units. They also offer product uniformity that enhances processing on automatic slot and wedge inserting equipment.

Applications

Mylar® Type MO films are being widely used for electrical insulation in slot liners, wedges, and phase insulation for motors and generators. Type MO films are also frequently used in hermetic motor/compressor sealed units, fractional horse power motors, diaphragms, and industrial laminations.

Typical Properties

The inherent mechanical durability of Mylar® Type MO films and their good dielectric and thermal durability characteristics endow these films with multiple advantages in motors and generators.

Typical Values for Major Properties

Nominal Thickness, μm (Gauge)	Tensile Strength MD/TD,*		Dimensional Stability MD/TD,*		Density, g/cm^3	Dielectric Strength (AC), kV (Min.)
	kg/mm^2 (kpsi)	Elongation MD/TD,* %	% Shrinkage	Opacity, %		
125 (500)	19/21 (27/30)	140/115	1.1/0.7	14	1.3923	13.5
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)
125 (500)	620 (2,040)
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)
125 (500)	2,500 (8,200)
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)

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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.