

Mylar® Type A

Polyester Film

**Thickness
Range
50-125 µm**

Profile

MYLAR® polyester film is a flexible, strong and durable film with an unusual balance of properties making it suitable for many industrial applications. Type A MYLAR® is a tough general purpose film which is translucent in 50 to 125µm thickness. Type A MYLAR® is primarily used for release applications, office supplies, electrical insulation and industrial laminations with other flexible materials. Type A MYLAR® is also available in 12 through 36µm and 190 to 500 µm thickness range.

Properties

Type A MYLAR® has a tensile strength that averages 190 MPa, has excellent resistance to moisture and most chemicals and can withstand temperature extremes from -70°C to 150°C. Because it contains no plasticizers, Type A MYLAR® does not become brittle with age under normal conditions.

Typical values for major properties are as follows:

Property/Method			50A	75A	100A	125A
Tensile Strength (MPa)	ASTM D 882	M	190	190	190	180
		T	210	200	200	200
Modulus (MPa)	ASTM D 882	M	3800	3800	3700	3600
		T	4100	4000	3900	3800
Elongation (%)	ASTM D 882	M	140	140	150	150
		T	120	120	120	130
Shrinkage 150°C for 30 min. (%)	ASTM D 1204	M	1.2	1.1	1.1	1.1
		T	1.1	1.0	1.0	1.0
Shrinkage 200°C for 30 min. (%)	ASTM D 1204	M	2.8	2.5	2.5	2.5
		T	2.5	2.3	2.3	2.3
Haze (%)	ASTM D 1003 Gardner Hazemeter		29	36	39	43
Dielectric Strength (minimum) (kV)	ASTM D 149		7.7	10	11.75	13.5

Mylar® Type A

Polyester Film

Thickness Range 12-36 µm

Profile

MYLAR® polyester film is a flexible, strong and durable film with an unusual balance of properties making it suitable for many industrial applications. Type A MYLAR® is a tough general purpose film which is translucent in 12 through 23µ and translucent in heavier thickness. Type A MYLAR® is primarily used for release applications, office supplies, electrical insulation and industrial laminations with other flexible materials. Type A MYLAR® is also available in 50 through 500 µm thickness range.

Properties

Type A MYLAR® has a tensile strength that averages 190 MPa, has excellent resistance to moisture and most chemicals and can withstand temperature extremes from -70°C to 150°C. Because it contains no plasticizers, Type A MYLAR® does not become brittle with age under normal conditions.

Typical values for major properties are as follows:

Property/Method			12A	15A	19A	23A	30A	36A
Tensile Strength (MPa)	ASTM D 882	M	200	200	210	210	230	230
		T	220	220	230	230	260	260
Modulus (MPa)	ASTM D 882	M	4200	4200	4200	4100	4100	4100
		T	4200	4200	4300	4300	4300	4300
Elongation (%)	ASTM D 882	M	100	110	110	130	120	130
		T	100	100	110	110	100	110
Shrinkage 150°C for 30 min. (%)	ASTM D 1204	M	1.5	1.3	1.3	1.3	2.5	2.0
		T	0.0	0.0	1.0	1.0	1.7	1.7
Shrinkage 200°C for 30 min. (%)	ASTM D 1204	M	4.5	4.0	4.0	4.0	8.0	7.0
		T	1.5	1.0	3.0	3.0	7.0	6.5
Haze (%)	ASTM D 1003 Gardner Hazemeter		5	7	11	15	20	22
Dielectric Strength (minimum) (kV)	ASTM D 149		2.5	2.7	3.0	4.0	4.8	5.5



Mylar®

polyester film

Mylar® A 190 - 500µm

Product Description

MYLAR® polyester film is a flexible, strong and durable film with an unusual balance of properties making it suitable for many industrial applications. Type MYLAR® A is a tough general purpose film available in 12µm to 500µm thickness range. In film thickness 12µm to 125µm, MYLAR® A is slightly hazy. In film thicknesses 190µm and above, MYLAR® A is hazy. Type MYLAR® A is primarily used for release applications, office supplies, electrical insulation and industrial laminations with other flexible materials.

Film Properties (typical values)

Type MYLAR® A has a tensile strength that averages 210 MPa, has excellent resistance to moisture and most chemicals and can withstand temperature extremes from -70°C to 150°C. Because it contains no plasticisers MYLAR® A does not become brittle with age under normal conditions.

Property	Test Method		Value				
Thickness	---	micron	190	250	300	350	500
Tensile Strength (Mpa)	ASTM D 882	MD	190	190	190	190	150
		TD	220	200	200	190	170
Modulus (Mpa)	ASTM D 882	MD	3300	3100	3000	2950	2600
		TD	3700	3500	3200	3200	2800
Elongation (%)	ASTM D 882	MD	190	210	210	240	270
		TD	140	170	180	200	240
Shrinkage 150°C for 30 min (%)	ASTM D 1204	MD	1.3	1.3	1.3	1.3	0.9
		TD	1.3	1.3	1.3	1.3	0.9
Shrinkage 200°C for 30 min (%)	ASTM D 1204	MD	3.5	3.5	3.5	3.5	2
		TD	3.3	3.3	3.5	3.3	1.7
Haze (%)	ASTM D 1003 Gardner Hazemeter		82	90	92	96	97
Dielectric Strength (minimum) (kV)	ASTM D 149		17.5	19	19.5	20	20

1mm = 1 micron = 0.001 mm approx 4 gauge, MD = Machine Direction, TD = Transverse Direction

This information corresponds to our current knowledge on the subject. It is offered solely to provide possible suggestions for your own experimentations. It is not intended, however, to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for your particular purposes. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, DuPont Teijin Films makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right.



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