



POLYESLINE S.L.

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Product Information Sheet

Mylar® A 190-350 Micron (Made in UK)

Product Description

Mylar® A is a general purpose film which combines excellent handling characteristics with a slightly hazy appearance. It is available in specific thicknesses from 190 to 350 micron and is used for the full range of Mylar® applications. Mylar A is a UL registered product File No: E93687.

Typical Applications

Mylar® A is used for a wide range of applications including office supplies, electrical insulation and industrial laminations with other flexible materials.

General Information

Mylar® A can withstand a broad range of temperatures and has good resistance to moisture and most chemicals. It contains no plasticisers and will not become brittle with age under normal conditions. As per Article 3(3) of the REACH regulation (EC) No 1907/2006 Mylar® A film is classified as an article. There are no substances intended to be released from the above film under normal, reasonably foreseeable conditions of use, as defined by Article 7(1).

Food Contact Advice

Mylar® A has not been assessed against Food Contact Legislation

Film Properties

Property	Unit	Typical Values				Test Method
General						
Thickness	micron	190	250	300	350	In-house Method
Area Yield	m ² /kg	3.76	2.86	2.38	2.04	In-house Method
Unit Weight	g/m ²	265.81	349.75	418.41	489.65	In-house Method
Electrical						
Breakdown Voltage	kV	17.5	19	19	20	ASTM D149
Surface Resistivity	ohm/	10 ¹³	10 ¹³	10 ¹³	10 ¹³	ASTM D257
Volume Resistivity	ohm m	10 ¹⁵	10 ¹⁵	10 ¹⁵	10 ¹⁵	ASTM D257
Permittivity						
23°C, 50 Hz		3.26	3.26	3.26	3.26	ASTM D150
23°C, 1 kHz		3.24	3.24	3.24	3.24	
23°C, 10 kHz		3.21	3.21	3.21	3.21	



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0°C, 50 Hz		3.26	3.26	3.26	3.26	
50°C, 50 Hz		3.27	3.27	3.27	3.27	
100°C, 50 Hz		3.35	3.35	3.35	3.35	
150°C, 50 Hz		3.65	3.65	3.65	3.65	
Dissipation Factor						
23°C, 50 Hz		0.002	0.002	0.002	0.002	ASTM D150
23°C, 1 kHz		0.0055	0.0055	0.0055	0.0055	
23°C, 10 kHz		0.011	0.011	0.011	0.011	
0°C, 50 Hz		0.004	0.004	0.004	0.004	
50°C, 50 Hz		0.0015	0.0015	0.0015	0.0015	
100°C, 50 Hz		0.01	0.01	0.01	0.01	
150°C, 50 Hz		0.006	0.006	0.006	0.006	
Mechanical						
Tensile Strength at Break (MD)	kgf/mm ²	21	21	19	21	ASTM D882
Tensile Strength at Break (TD)	kgf/mm ²	27	28	20	25	ASTM D882
Elongation at Break (MD)	%	180	180	215	180	
Elongation at Break (TD)	%	120	120	170	120	
Optical						
Haze	%	88	93	97	95	ASTM D1003
Colour L		92	92	91	91	
Colour a		-3	-3	-4	-4	
Colour b		10	11	12	12	
Thermal						
Shrinkage MD (150°C for 30 mins)	%	1.3	1.2	1.1	1.1	ASTM D1204
Shrinkage TD (150°C for 30 mins)	%	0.4	0.3	0.5	0.2	ASTM D1204
Melting Point	°C	255-260	255-260	255-260	255-260	
Coefficient of thermal expansion MD (between 20-50°C)	ppm/k	35	35	35	35	
Coefficient of thermal expansion TD (between 20-50°C)	ppm/k	28	28	28	28	

Disposal Advice

Disposal of Mylar® A 190-350 Micron does not present special disposal problems. Where waste occurs in a clean, uncontaminated form it can be recycled. In most circumstances, once Mylar® A 190-350 Micron has been laminated, coated, printed or metallised, incineration with Energy Recovery is the most environmentally efficient recovery route. Mylar® A 190-350 Micron can also be burned in an incinerator with normal refuse or can be buried as a relatively inert material in a landfill. The disposal method should comply with appropriate local and country regulations.

The information provided in this Product Information Sheet corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to the specific material designated; these data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since Mylar Specialty Films cannot anticipate all variations in actual end-use conditions Mylar Specialty 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 rights. Caution: Medical device applications incorporating Mylar®, Melinex® or Kaladex® films must be reviewed and approved under Mylar Specialty Films Medical Device Policy. Mylar®, Melinex® and Kaladex® films are not intended for implantation in the human body. For other applications, please contact your Technical Service Representative for more details. Copyright © 2024

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