Technical Datasheet - Metric Units

Mylar® A 500 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 a nominal thickness of 500 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			
Actual Thickness	micron	465	In-house Method
Area Yield	m^2/kg	1.54	In-house Method
Unit Weight	g/m^2	651	In-house Method
Electrical			
Breakdown Voltage	kV	29	ASTM D149
Surface Resistivity	ohm/	10^{13}	ASTM D257
Volume Resistivity	ohm m	10^{15}	ASTM D257
Permitivity 23°C, 50 Hz 23°C, 1 kHz 23°C, 10 kHz 0°C, 50 Hz 50°C, 50 Hz 100°C, 50 Hz 150°C, 50 Hz		 3.26 3.24 3.21 3.26 3.27 3.35 3.65	 ASTM D150

Dissipation Factor 23ºC, 50 Hz 23ºC, 1 kHz 23ºC, 10 kHz 0ºC, 50 Hz 50ºC, 50 Hz 100ºC, 50 Hz 150ºC, 50 Hz		 0.002 0.0055 0.011 0.004 0.0015 0.01 0.006	 ASTM D150
Mechanical			
Tensile Strength at Break (MD)	kgf/mm^2	19	ASTM D882
Tensile Strength at Break (TD)	kgf/mm^2	20	ASTM D882
Elongation at Break (MD)	%	280	
Elongation at Break (TD)	%	200	
Optical			
Haze	%	98	ASTM D1003
Colour L		89	
Colour a		-3.5	
Colour b		19	
Thermal			
Shrinkage MD (150ºC for 30 mins)	%	1.0	ASTM D1204
Shrinkage TD (150ºC for 30 mins)	%	1.0	ASTM D1204
Melting Point	ºC	255-260	
Coefficient of thermal expansion MD (between 20-50ºC)	ppm/k	35	
Coefficient of thermal expansion TD (between 20-50ºC)	ppm/k	28	

Disposal Advice

Disposal of Mylar® A does not present special disposal problems. Where waste occurs in a clean, uncontaminated form it can be recycled. In most circumstances, once Mylar® A has been laminated, coated, printed or metallised, incineration with Energy Recovery is the most environmentally efficient recovery route. Mylar® A 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.

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