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Mylar® Specialty Films

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
Permitivity						
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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0ºC, 50 Hz		3.26	3.26	3.26	3.26	
50ºC, 50 Hz		3.27	3.27	3.27	3.27	
100ºC, 50 Hz		3.35	3.35	3.35	3.35	
150ºC, 50 Hz		3.65	3.65	3.65	3.65	
Dissipation Factor						
23ºC, 50 Hz		0.002	0.002	0.002	0.002	ASTM D150
23ºC, 1 kHz		0.0055	0.0055	0.0055	0.0055	
23ºC, 10 kHz		0.011	0.011	0.011	0.011	
0ºC, 50 Hz		0.004	0.004	0.004	0.004	
50ºC, 50 Hz		0.0015	0.0015	0.0015	0.0015	
100ºC, 50 Hz		0.01	0.01	0.01	0.01	
150ºC, 50 Hz		0.006	0.006	0.006	0.006	
Mechanical						
Tensile Strength at Break (MD)	kgf/mm²	21	21	19	21	ASTM D882
Tensile Strength at Break (TD)	kgf/mm²	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 (150ºC for 30 mins)	%	1.3	1.2	1.1	1.1	ASTM D1204
Shrinkage TD (150ºC for 30 mins)	%	0.4	0.3	0.5	0.2	ASTM D1204
Melting Point	ºC	255-260	255-260	255-260	255-260	
Coefficient of thermal expansion MD (between 20-50ºC)	ppm/k	35	35	35	35	
Coefficient of thermal expansion TD (between 20-50ºC)	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.