



Technical Datasheet - Metric Units

Melinex® 401 (Made in Dumfries)

Product Description

Melinex® 401 is a sparkling clear film with good handling qualities. Melinex® 401 is supplied in knurled reel form and is currently available at 75 and 100 micron.

Typical Applications

Melinex® 401 is specially treated to give a slippery surface on one side, is suitable for applications where very high transparency is important.

General Information

As per Article 3(3) of the REACH regulation (EC) No 1907/2006 Melinex® 401 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

Melinex® 401 has not been assessed against Food Contact Legislation

Film Properties

Property	Unit	Typical Values		Test Method
General				
Thickness	micron	75	100	In-house Method
Area Yield	m ² /kg	9.6	7.2	In-house Method
Relative Density (23°C)		1.4	1.4	Based on ASTM D1505-79
Mechanical				
Tensile Strength at Break (MD)	MPa	205	200	Based on ASTM D882-83
Tensile Strength at Break (TD)	MPa	245	245	Based on ASTM D882-83
Elongation at Break (MD)	%	150	150	Based on ASTM D882-83
Elongation at Break (TD)	%	100	100	Based on ASTM D882-83
Slip (coefficient of static friction)	treated to untreated	0.6	0.6	Based on ASTM D1894-78
F5 (MD)	kgf/mm ²	10.5	10.5	Based on ASTM D882-83
F5 (TD)	kgf/mm ²	10.5	10.5	Based on ASTM D882-83
Optical				
Haze	%	0.3	0.35	Based on ASTM D1003-77
Thermal				
Upper Melt Temperature	°C	255-260	255-260	Based on ASTM E794-85
Coefficient of thermal expansion between 20-50°C	ppm/K	19	19	Based on ASTM E831-06
Shrinkage (at 150°C/30 mins) (MD)	%	1.2	1.2	Based on ASTM D1204-78
Shrinkage (at 150°C/30 mins) (TD)	%	0.2	0.2	Based on ASTM D1204-78

Disposal Advice

Disposal of Melinex® 401 does not present special disposal problems. Where waste occurs in a clean, uncontaminated form it can be recycled. In most circumstances, once Melinex® 401 has been laminated, coated, printed or metallised, incineration with Energy Recovery is the most environmentally efficient recovery route. Melinex® 401 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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