


**PRODUCT INFORMATION**
**Melinex<sup>®</sup> Polyester Film**
**Melinex<sup>®</sup> 238**
**Manufactured at DuPont HongJi**
**Product Description**

Melinex<sup>®</sup> 238 is a translucent white polyester film used for electrical insulation. Melinex<sup>®</sup> 238 is characterized by a lower extractable content than standard film and has a thermal and hydrolytic stability surpassing competitive films.

Various standard lengths are available in nominal thickness of 75,125,190,225,250,300,350 micron.

**Application**

The low extractable content and exceptional hydrolytic and thermal stability of Melinex<sup>®</sup> 238 make this film ideally suited for use in hermetic and some open motors that experience higher operating temperature and /or moisture levels.

**Typical Properties**

Extractable content of Melinex<sup>®</sup> 238, as determined by 24-hours extraction in boiling xylene, does not exceed 0.7%. Also, Melinex<sup>®</sup> 238 has excellent mechanical properties, forming capability, shrinkage, delamination resistance, and dielectric properties.

**UL Approvals**

It has a relative thermal index (RTI), assigned by Underwriters Labs, that is higher than most PET films.

**UL Component Registration (RTI = 140/125° C)** - for 300 gauge (0.075mm) - Relative Thermal Index (RTI) = 140° C (Elect), 125° C (Mech-Str)

**UL Component Registration (RTI = 140/130° C)** - for 1000 gauge (0.25mm) - Relative Thermal Index (RTI) = 140° C (Elect), 130° C (Mech-Str)

**Typical Values for Major Properties**

Thickness	Tensile Strength MD/TD	Elongation MD/TD	Shrinkage MD/TD 190°C, 5 min	Breakdown Voltage	Surface Resistivity	Volume Resistivity	Oligomer extraction
Micron	MPa	%	%	kV	ohm	Ohm* m	%
DIN 53370	ASTM D 882	ASTM D 882	ASTM D 1204	IEC 243	IEC 90	IEC 93	Melinex <sup>®</sup> Method
75	200/200	170/170	3.6/2.8	12	>10 <sup>13</sup>	10 <sup>15</sup>	0.7
125	200/200	170/170	3.6/2.8	16	>10 <sup>13</sup>	10 <sup>15</sup>	0.7
190	200/200	180/180	3.0/2.5	19	>10 <sup>13</sup>	10 <sup>15</sup>	0.7
250	200/200	180/180	2.7/2.0	25	>10 <sup>13</sup>	10 <sup>15</sup>	0.7
300	170/170	180/180	2.7/2.0	25	>10 <sup>13</sup>	10 <sup>15</sup>	0.7
350	160/160	200/200	2.0/1.2	26	>10 <sup>13</sup>	10 <sup>15</sup>	0.7

\*MD: Machine Direction; TD: Transverse Direction

## Standard Put-ups

Film	Standard Reel Length (metres)	Multiples of Standard Reel Length Available
Melinex <sup>®</sup> 238 75Micron	1000	2,3
Melinex <sup>®</sup> 238 125Micron	600	2, 3
Melinex <sup>®</sup> 238 190Micron	400	2, 3
Melinex <sup>®</sup> 238 250Micron	300	2,3
Melinex <sup>®</sup> 238 350Micron	210	2,3
Max. available slit width: 1500mm		
Core ID size: 152mm, Other core sizes are available on request.		
Other sizes can be produced as per the customer requirement.		

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 and patent right.

**Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see “DuPont Teijin Films Medical Caution Statement”, H-50102-DTF.**

**Product of DuPont Hongji Films Foshan Co. Ltd.**

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