
Melinex® 238

Melinex® 238 is a flexible, white polyester film with a matt surface.

Attributes

According to its UL classification, Melinex® 238 has a relative thermal index of 140 °C, a mechanical RTI of 130 °C and displays excellent ageing resistance compared to common polyester films with a higher oligomer content. Furthermore, Melinex® 238 displays very high dielectric strength, minimum changes to dielectric values, excellent mechanical properties and very good hydrolytic stability. The half life period of the mechanical properties is twice as high.

Application

Melinex® 238 was specially developed for use in electric motors with particular chemical exposure as slot insulation, phase insulation and wedges. Due to its low oligomer extraction it is particularly suitable for use in hermetic motors with refrigerants.

Standards

- UL approved, file no. E 93687

Delivery forms

Film thicknesses in µm:

125, 190, 250, 350

Melinex® 238 can be supplied:

- in slit rolls from widths of 6 mm (depending on thickness) and above
- in rolls up to widths of 1100 mm

Overall diameter of the slit rolls/ rolls

approx. 240, 330 or 450 mm.

Feathering:

- depth approx. 1 - 12 mm, distance approx. 1 - 10 mm
- from widths of 10 to 240 mm and thickness of 0.125 mm

Base

Polyethylenterephthalate

Mechanical	Unit of measure					Test method
Total thickness	µm	125	190	250	350	
Oligomer extraction	%	0.7	0.7	0.7	0.7	24 h in boiling Xylen
Tensile strength longitudinal	N/mm²	200	200	200	190	ASTM D 882
Tensile strength transversal	N/mm²	200	200	200	180	ASTM D 882
Elongation at break longitudinal	%	160	160	180	200	ASTM D 882
Elongation at break transversal	%	160	160	180	200	ASTM D 882

Thermal	Unit of measure	Conditions
Total thickness	µm	
Shrinkage longitudinal	%	5 min. at 190°C
Shrinkage transversal	%	5 min. at 190°C

Thermal	Unit of measure					Test method
Total thickness	µm	125	190	250	350	

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Thermal	Unit of measure					Test method
Shrinkage longitudinal	%	3.6	3.0	2.5	2.5	ASTM D1204-78
Shrinkage transversal	%	2.8	2.5	2.0	1.5	ASTM D1204-78

Electrical	Unit of measure	
Total thickness	µm	125
Volume resistivity	Ω x m	10 ¹⁴
Dielectric strength	kV	16

Electrical	Unit of measure				Test method
Total thickness	µm	190	250	350	
Volume resistivity	Ω x m	10 ¹⁴	10 ¹⁴	10 ¹⁴	ASTM D257-83 (100V DC at 25 °C and 1000s)
Dielectric strength	kV	20	25	26	

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