

	Manual Dissipative stretch film ESD PERMANENT	Edition 2
	Technical Data sheet	Date of description 09.06.2022

Application: Dissipative stretch film ESD is designed to protect in EPA sensitive to static electricity discharge electronic devices and components on pallet . Dissipative stretch film ESD is according with norms IEC61340-5-3; and directive RoHS.

General properties

Properties	Parameters
Material	Amine free Polyethylene dissipative LLDPE ESD
Type of product	PERMANENT ANTISTATIC <i>Environmental conditions for proper work:</i> <i>Temperature: 23 °C</i> <i>Humidity above 12 %</i>
Colour	Pink Transparent
Using place	Zone EPA
Dimension	500mm x 300mt x 0,023mm (Width x Length on roll x Thickness) 500mm x 190mt x 0,023mm (Width x Length on roll x Thickness)
Weight/ Net	3,16kg /roll 2,00kg/ roll
Overprint/ Colour	No printing
Internal Tube diameter	50 mm
According with norms	IEC 61340-5-3
According with directive RoHS	SGS raport nr. TR142908
Guarantee ***	24 months
Pre-Stretch	220%

Physicochemical properties*

Properties	Test Methods	Unit	Typical value**
Thickness	MB/MW/03 PN-ISO 4593	µm	23µm ± 3%
Size tolerance	PN-ISO 4593	mm	±10mm
Length tolerance	Internal method	mb	± 3%
Weight tolerance	Internal method	%	± 3%
Puncture strength	Internal method	g	40 ± 3%
Average breaking strength	Internal method	kg	20,5 ± 3%
Average braking elongation	Internal method	%	324 ± 3%
Adhesive strength	Internal method	g	40 ± 3%
Density	Internal method	g/cm ³	0,918 ± 3%
Surface resistance inside for humidity above 12%,23°C	IEC 61340-2-3	Ω	< 1 x 10 ¹¹
Surface resistance outside for humidity above 12%,23°C	IEC 61340-2-3	Ω	<1 x 10 ¹¹
Discharge (1000V/100V)	IEC 61340-5-1	s	<2s

*Properties were studies on sample dissipative material ESD; ** Typical calculations ***Environmental suggest work : Humidity above 12% and Temperature 23°C

***	Name	Position	Signature	Date
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Approved by	Artur Milewski	General Director	Signatures on the original document	09.06.2022
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