



POLYONICS

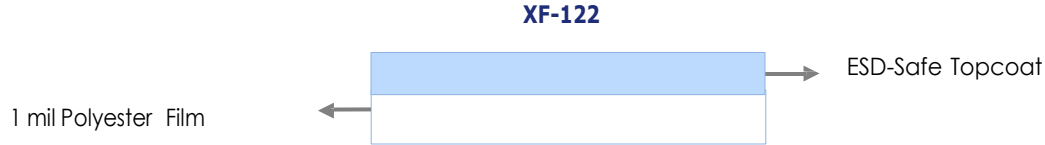
PolyFLEX Substrates

XF-122

1 mil Clear Polyester ESD-Safe™ Film

Description:

POLYONICS PolyFLEX™ XF-122 is a 1 mil (25µm) clear polyester film with a durable HardCoat™ ESD-Safe non-metallic static dissipative coating.



Features:

- Static Dissipative
- Low charging
- REACH and RoHS compliant
- Dimensionally stable at high temperatures
- Chemically resistant
- High light transmissivity

Applications:

- Static dissipative packaging, wraps, protective layers, barriers, printed electronics, etc.

Technical Data

PROPERTIES	TEST METHODS	AVERAGE RESULTS	
		Value	Units
Thickness	ASTM D1000		Inch (µm)
	1 mil Polyester	0.001 (25.4)	
	ESD topcoat	0.0003 (7.6)	
	Total	0.0013 (33.0)	
Surface Resistance	EOS/ESD STM11.11	>10 ⁴ and < 10 ⁹ Ohms	
ESD Surface Durability	ASTM D4752-10	>500 Double IPA Rubs	
Thermal Expansion 1 mil Polyester	ASTM D696	3.9 x 10 ⁵	in/in/F
Impact Strength	ASTM D256	0.7	Ft-lbs/in
Tensile Strength (MD) 1 mil Polyester	ASTM D638	32,500 (23)	psi (Kg/mm ²)
Flexural Strength	ASTM D790	15,000	psi
Elongation (MD) 1 mil Polyester	ASTM D882	150	% 73F
Water Absorption	ASTM D570	0.10	% 24hrs
Volume Resistivity 1 mil Polyester	ASTM D-257	10 ¹⁶	Ohm-cm
Dielectric Strength 1 mil Polyester	ASTM D-149	5.0 (197)	kV/mil (kV/µm)

1 MD=machine direction



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Durability Testing

Table with 4 columns: Properties, Test, Test Fluid, Results. Rows include Chemical Resistance, Weathering Test, Temperature Rating, and Shelf Life.

Polyonics Material Compliance

Table with 2 columns: Compliance Standard (RoHS, REACH, Halogens) and Description of limits.

All SI units are mathematically derived from U.S. conventional units.

NOTE: All values shown are averages and should not be used for specification purposes. Test data and test results contained in this document are for general information only...

References:

ASTM: American Society for Testing and Materials (U.S.A.) SI: International Systems of Units.

Trademarks:

XJN+ & Aquanox SSA-TM is a trademark of Kyzen Corporation RE-ENTRYTM is a registered trademark of Environsolv Inc.



WARRANTY LIMITATION

Polyonics' products are sold with the understanding that the Buyer will test them in actual use and determine for him/herself their adaptability to his/her intended uses.

The above warranties extend solely to Buyer and all warranty claims must be made by the Buyer. Rework or Replacement shall neither exceed nor decrease the original warranty period.

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