

2 MIL WHITE POLYESTER ESD-SAFE FILM

POLYONICS XF-124 is a 2 mil white polyester film with durable ESD-Safe non-metallic static dissipative coatings.



FEATURES

- Static dissipative
- Low charging
- REACH and RoHS compliant
- Chemically resistant
- High opacity

APPLICATIONS

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

SPECIAL CONSIDERATIONS

- Intended for industrial use only

TECHNICAL DATA

Properties	Test Method	Average Results (Value)	Average Results (Units)
Thickness	ASTM D-1000		
<i>2 mil Polyester</i>		0.002 (50.8)	Inch (µm)
<i>ESD Topcoat</i>		0.0003 (7.6)	Inch (µm)
<i>ESD Backcoat</i>		0.0003 (7.6)	Inch (µm)
<i>Total</i>		0.0036 (66.0)	Inch (µm)
Surface Resistance	EOS/ESD STM11.11	>10 ⁴ and < 10 ⁹ Ohms	
ESD Surface Durability	ASTM D4752-10	>500 Double IPA Rubs	
Thermal Shrinkage <i>2 mil Polyester</i>	ASTM D696	2.8	% 190 °C 5 min
Tensile Strength (MD)¹ <i>2 mil Polyester</i>	ASTM D882A	22,000	psi
Yield Strength	ASTM D882A	12,000	psi
Elongation (MD)¹ <i>2 mil Polyester</i>	ASTM D882A	90	%
Light Transmission <i>2 mil Polyester</i>	ASTM D1003	12	%
Whiteness <i>2 mil Polyester</i>	ASTM E313-79	100	%

¹ MD=machine direction

DURABILITY TESTING

Properties	Test Method	Test Fluid	Results
Chemical Resistance	MIL-STD-202G, Notice 12, Method 215K MIL-STD-883E, Notice 4, Method 2015.13	Solvent A- 1 part IPA, 3 parts mineral spirits	No visible effect
		Solvent C- Terpene Defluxer	No visible effect
		Solvent D- Saponifier	No visible effect
Weathering Test	ASTM G154	-	No visible effect
Temperature Rating	-40 to 302 °F (-40 to 150 °C) for short durations and 257 °F (125 °C) for 75 min. Higher temperatures, short dwell only.		
Shelf Life	1 year below 80 °F (27 °C) and 60% R.H.		

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 and shall not be relied upon by POLYONICS customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact POLYONICS for further information.

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-ENTRY™ is a registered trademark of EnvironsolvInc.

POLYONICS MATERIAL COMPLIANCE

RoHS (Restriction of Hazardous Substances) EU Directive 2002/95/EC	Limits set forth in Directive 2011/65/EU
REACH (Registration Evaluation and Authorization of Chemicals) EU Directive 1907/2006/EC	Limits set forth in Directive 1907/2006/EC Article 7 (2)
Halogen Free - Restriction use of Halogen (IEC 61249-2-21)	Limits set forth in International Electrochemical Commission

WARRANTY-LIMITATION

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