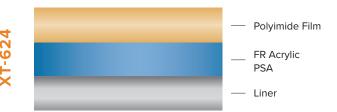


1 MIL POLYIMIDE FR TAPE

POLYONICS XT-624 is a single coated, 1 mil (25 μ m), die-cuttable, amber polyimide tape with a 1 mil (25 μ m) high-temperature, flame retardan,t pressure sensitive acrylic adhesive and liner.



TECHNICAL DATA

Properties	Test Method	Average Results (Imperial Units)	Average Results (SI Units)
Thickness	ASTM D-1000		
Film		1 mil	25 μm
Adhesive		1 mil	25 μm
Total		2 mil	50 μm
Dielectric Breakdown	ASTM D-149	> 7.6 kV/mil	> 299 kV/mm
Adhesion	Polyonics 80313		
Stainless Steel	20 minute dwell	≥ 27 oz/in	≥ 29 N/ 100 mm
	24 hour dwell	≥ 32 oz/in	≥ 35 N/ 100 mm
Shear	SAFT ASTM D4498	> 360 °F	> 182 °C
Tack	Polyonics 80155	≥ 1000 g/in	≥ 39 g/mm
Flammability ¹	UL94 Standard		
	VTM-0 Rating	Pass	
	V-0 Rating	Pass (Aluminum Substrate)	
	FAR 25.853	Pass	
	FAR 25.853	Pass	
Temperature Range	Short term	-40 °F to 572 °F	-40 °C to 300 °C
Shelf Life	1 year below 80 °F (27 °C) and 60% R.H.		

FEATURES

- · REACH and RoHS compliant
- · Halogen-free flame retardant
- · Dimensionally stable at high temperatures
- · Heat, cold, solvent, chemical and voltage resistance

APPLICATIONS

- Die cut parts used in electrical, electronics, automotive, aerospace and medical industries where the prevention of flame propagation is required.
- Low profile electrical and thermal insulation between electrical and mechanical devices and components
- Low profile thermal mask for the protection of gold fingers of PCBs during wave soldering, solder dip or hot air leveling (HAL)

SPECIAL CONSIDERATIONS

- · Intended for industrial use only
- The surface on which the tape is applied should be clean, dry and free of any contamination, such as dust, oil or rust. Isopropyl alcohol is recommended to clean the surface.
- Use firm pressure when applying tape to increase the physical contact of the adhesive with the surface.
- Pressure sensitive adhesives will provide stronger bonds to warm surfaces by increasing adhesive flow and peel strength.

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. Adhesion and tack values have a 15% tolerance allotted to the values stated. 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.

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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