

2 MIL POLYIMIDE FR TAPE

POLYONICS XT-625 is a single coated, 2 mil (50 µm), die-cutable, amber polyimide tape with a 1 mil (25 µm) high-temperature, flame retardant, pressure sensitive acrylic adhesive and liner.

XT-625



FEATURES

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

TECHNICAL DATA

Properties	Test Method	Average Results (Imperial Units)	Average Results (SI Units)
Thickness	ASTM D-1000		
<i>Film</i>		2 mil	50 µm
<i>Adhesive</i>		1 mil	25 µm
<i>Total</i>		3 mil	75 µm
Dielectric Breakdown	ASTM D-149	> 6.6 kV/mil	> 6.6 kV/mil
Adhesion	Polyonics 80313		
<i>Stainless Steel</i>	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
Flammability¹	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.		

APPLICATIONS

- Die cut parts used in electrical, electronics, automotive, aerospace and medical industries where the prevention of flame propagation is required.
- 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 to be 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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