

## 2 MIL ALUMINUM FR TAPE

POLYONICS XT-631 is an uncoated 2 mil (50 µm) die-cuttable aluminum tape with a 1 mil (25 µm) high-temperature, flame retardant pressure sensitive acrylic adhesive and liner.

XT-631



### APPLICATIONS

- Die cut parts used in electrical, electronics, automotive, aerospace and medical industries where the prevention of flame propagation is required.
- Electromagnetic and RF absorption and isolation
- Vapor barrier
- Prevention of flame propagation

### TECHNICAL DATA

Properties	Test Method	Average Results (Imperial Units)	Average Results (SI Units)
<b>Thickness</b>	ASTM D-1000		
<i>Film</i>		2 mil	50 µm
<i>Adhesive</i>		1 mil	25 µm
<i>Total</i>		3 mil	75 µm
<b>Adhesion</b>	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
<b>Shear</b>	SAFT ASTM D4498	> 360 °F	> 182 °C
<b>Tack</b>	Polyonics 80155	≥ 1000 g/in	≥ 39.4 g/mm
<b>Flammability<sup>1</sup></b>	UL94 Standard		
	VTM-1 Rating	Pass	
	V-1 Rating	Pass (Aluminum Substrate)	
	FAR 25.853	Pass	
	BSS 7238/7239	Pass	
<b>Temperature Range</b>	Short term	-40 to 572 °F	-40 to 300 °C
<b>Shelf Life</b>	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
- Chemically resistant
- Heat, cold, solvent and voltage resistance

### 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

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

## WARRANTY-LIMITATION

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**Polyonics World Headquarters**  
 28 Industrial Park Drive  
 Westmoreland, NH 03467 U.S.A.

Ph: 603.352.1415  
 Fax: 603.352.1936  
 Email: info@polyonics.com

**Polyonics Asia**  
 Fuweo Mansion Rm 411  
 Hongtu Road 88  
 Nancheng District  
 Dongguan, Guangdong, China 523078

Ph: 86.755.8825.0441  
 Fax: 86.755.8825.2429  
 Email: infoasia@polyonics.com

[polyonics.com](http://polyonics.com)

