



Description: Polyonics XT-660 is high temperature aluminum tag material with a **high opacity, white topcoat** specifically designed for thermal transfer printing. Do not touch topcoat or ribbon print when hot as smearing may occur, once cooled topcoat and ribbon are bonded and smear resistant.

Use: Polyonics XT-660 Aluminum Tag material is designed for barcode or alphanumeric identification of extremely hot materials. These Tags withstand the high temperatures encountered in many processes and also exhibit tear resistance making this the ideal product for marking steel or any other hot material requiring a hang tag.

Printer Technology: The choice of **thermal transfer** printer influences the print quality for the overall aluminum tag performance. Our materials can be used with most high performance industrial thermal transfer printers.

Testing for specific printer and ribbon is mandatory.

PROPERTIES	TEST METHODS	AVERAGE RESULTS	
		USA Unites	SI Units
Thickness	ASTM D 1000		
- Coated Aluminum		0.0030 inch	0.0762 mm
- Backing		0.0050 inch	0.1270 mm
- Total		0.0080 inch	0.2032 mm
Thermal Characteristics	Operating Temperature	-40°C to 400°C (-40°F to 752°F)	
Shelf Life *		1 year below 27°C (80°F) and 60% R. H.	
Ribbon suggestions – TESTING MANDATORY		Ricoh B110-A	

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.) (U.S.A.)

SI: International Systems of Units. All SI units are mathematically derived from U.S. conventional units.

***Shelf Life:** Customer experience, supported by our laboratory data clearly show that XT-660 aluminum label material can be stored for at least **1 Year** in an environment below 80 degrees F and 60% RH. We are confident that our product will perform well beyond this time frame, however, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use, in their actual applications.

Surface conditions: Slight surface imperfections such as micro-cracks, pick-up (sparkles or bumps) and die lines are often caused by local variations in the microstructure of the foil due to size and distribution of intermetallic particles, grain size and grain orientation/texture. Such imperfections are common and beyond our control. This material is not recommended for high density small print labels.



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. Polyonics warrants to the buyer that its products are free from defects in material and workmanship, but limits its obligation under this warranty to replacement of the products shown to Polyonics' satisfaction to have been defective, provided that the Purchaser has complied with the handling, storage and shelf life requirements as specified by Polyonics in applicable materials specifications. The Purchaser shall return the products using Polyonics' return policy as stated above.

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