



THERMOGARD®
Materials for High
Temperature
POLYONICS, INC.



Aluminum foil tags and labels

Identification of hot metals....

*billets, coils, sheets, pipes,
tubes, rebar*

- **Thermal transfer printable**
- **Withstands temperatures up to 621°C**



Preliminary Technical Specifications

Base material:	Result	Method
Al foil (thickness)	0.001 in (0.025 mm)	ASTM D1000
Coating (thickness)	0.0003 in (0.0075 mm)	ASTM D1000
Adhesive:		
Acrylic		
Thickness	0.001 in (0.025 mm)	ASTM D1000
Application temperature	40-100°F (5-35°C)	
Operating temperature	Up to 800°F (325°C). Best results in inert atmosphere, such as nitrogen (N ₂).	
Silicone		
Thickness	0.001 in (0.025 mm)	ASTM D1000
Application temperature	Up to 800°F (325°C).	
Operating temperature	Up to 1150°F (621°C), dependent on exposure time and other environmental factors.	

Test data and test results contained in this document are based on limited laboratory data, 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. 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 reserves the right to change the product construction and modify reported test data, in its sole discretion. Customers desiring to develop specifications or performance criteria for specific product applications should contact POLYONICS for further information.

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