

ULTRA PERFORMANCE
POLYIMIDE LABEL MATERIALS

APEX SERIES

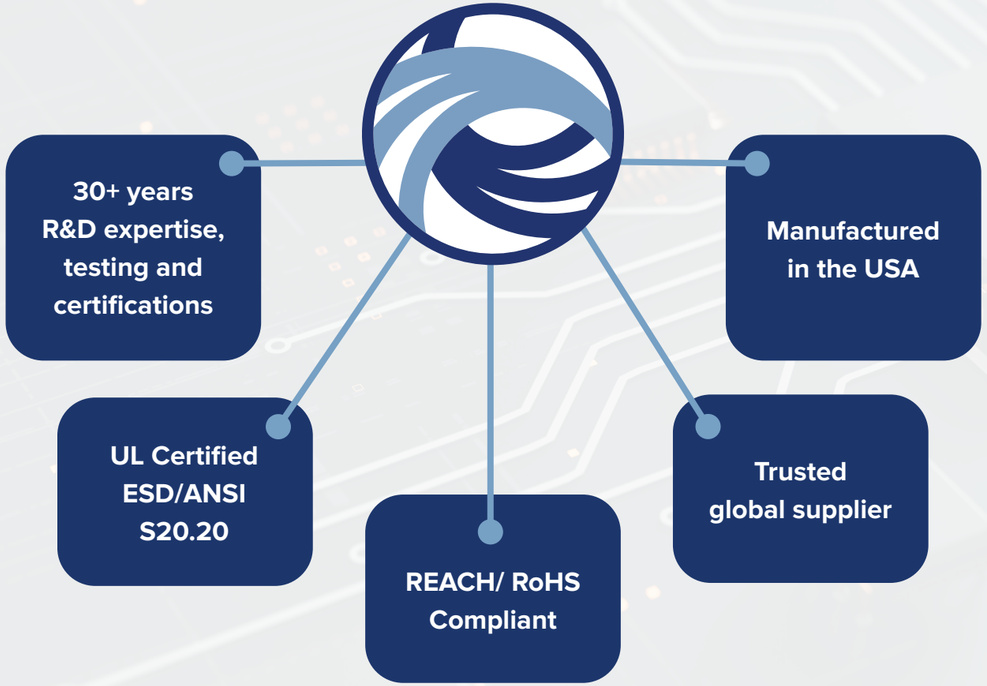
The Ultimate Polyimide Labeling Solution for PCBs

POLYONICS

WE ARE POLYONICS

SPECIALTY COATED POLYIMIDE LABEL MATERIALS FOR HARSH ENVIRONMENTS

With over three decades of expertise, we are a US-based company specializing in the research, development and manufacturing of coated polyimide and other films used for labels and tags. We provide engineered solutions with specific formulations tailored to meet unique application requirements. Our durable product materials are essential for the most reliable identification and tracking labels and tags used throughout the manufacturing process.



POLYONICS' NEW APEX SERIES

The Ultimate Labeling Solution

The Apex Series exemplifies peak performance and cutting-edge technology.

Polyonics' new Apex Series product line offers an excellent balance of enhanced TTR printability, chemical and flux resistance, and heat resistance. It is an ideal choice for PCB applications, as well as a wide range of Automotive, Aerospace and other industrial uses.

CHEMICAL AND FLUX RESISTANCE: Our performance coatings resist abrasion at elevated temperatures and withstand highly corrosive fluxes, ensuring high-contrast barcodes and small fonts remain readable after heat exposure.

Designed to withstand today's harshest PCB manufacturing processes, the new Apex Series label materials offer 72% improvement in flux solder performance and 15% improvement in cleaner resistance, when tested against our legacy line of products.

HEAT RESISTANCE AND SECURE ADHESION: Engineered with aggressive pressure sensitive adhesives and specialty coatings to exceed high-temperature demands, our PCB label materials maintain integrity and performance under extreme thermal conditions, ensuring reliable adhesion and readability.



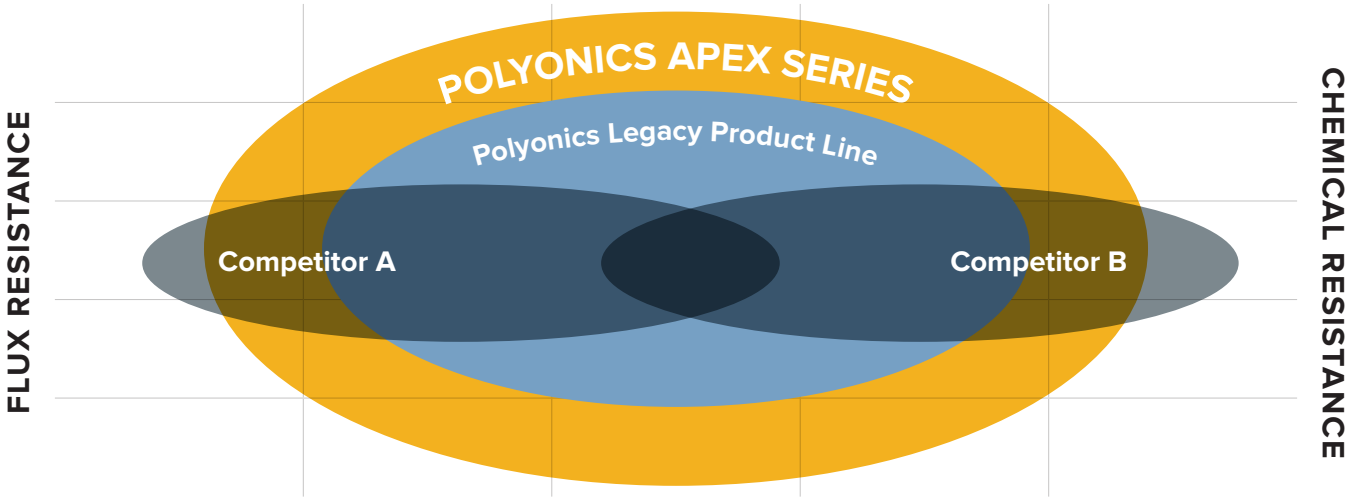
APPLICATIONS

- PCB identification
- Electronic component tracking
- Asset tracking
- Warranty labeling



THE BEST IN COMPREHENSIVE PERFORMANCE

Third-party testing compared our product to two top competitors in various cleaners, reflowed and non-reflowed conditions. Polyonics formulation demonstrated superior overall performance in solvents, cleaners, fluxes, thermally driven color shift, and abrasion tests. While competitors may excel in one aspect, **none match the comprehensive performance of our Apex Series coating**.



POLYONICS APEX SERIES LABEL MATERIAL PRODUCT LINE

Film	Product	Finish	Adhesive	ANSI/ESD S20.20	Temperature	Reach and RoHS Compliant
1 mil Polyimide	**XF-101M**	Matte White	1 mil Acrylic		100 hrs at 302 °F (150°C) 5 min at 500 °F (260 °C) 90 sec at 572 °F (300 °C)	✓
2 mil Polyimide	**XF-102M**	Matte White	1.5 mil Acrylic			✓
1 mil Polyimide	**XF-101S**	Semi Gloss White	1 mil Acrylic			✓
2 mil Polyimide	**XF-102S**	Semi Gloss White	1.5 mil Acrylic			✓
1 mil Polyimide	**XF-101G**	Gloss White	1 mil Acrylic			✓
2 mil Polyimide	**XF-102G**	Gloss White	1.5 mil Acrylic			✓
1 mil Polyimide	**XF-101SE**	ESD Semi Gloss White	1 mil Acrylic	✓		✓
2 mil Polyimide	**XF-102SE**	ESD Semi Gloss White	1.5 mil Acrylic	✓		✓
1 mil Polyimide	**XF-101ME**	ESD Matte White	1 mil Acrylic	✓		✓

For additional technical information, please contact us at **603.352.1415** or **info@polyonics.com**
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RoHS Compliant
SJ/T11364-2006 & EU2002/95/EC 2003/11/EC 76/69/EEC
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