



LGI high temperature labels, we take the heat for you!

High Temperature Labels

The conditions encountered by a circuit board or electrical component vary considerably depending on the stage of the manufacturing process and the methodologies employed. LGInternational's line of high temperature labels facilitates reliable tracking of electrical components throughout the harsh environment of the production process as well as the labeling of finished products.

Solutions for every stage of manufacturing

LGInternational offers a range of high temperature labels and thermal transfer ribbons to address varying requirements such as heat exposure, chemical resistance, printability, dielectric properties and mechanical strength. Based on your specifications, LGI will work with you to identify the most economical solution that will deliver the performance you require.

Response to increasing demands

Since the label carries information that is valuable to inventory, process control, and customer specifications, it has increasingly become an important component of circuit boards and electronics manufacturing. In response to the impact of environmental regulations on the manufacturing process, LGI has collaborated closely with its suppliers to develop labeling solutions that meet the changing thermal, environmental, and regulatory demands.

Reliable barcoding solutions

LGInternational offers a range of adhesives and materials which reliably adhere and preserve the integrity of the label and its printed content in spite of harsh environments. By pairing the proper label and printer ribbon with the requirements of your process, LGI preempts common challenges, such as discoloring, curling, and falling off, while delivering the most economical options.

Product Highlights

- Excellent ink adhesion to maximize readability of barcodes & variable information
- Withstand extreme temperatures up to 538°C/1000°F (315°C/599°F constant working temperature)
- Excellent chemical resistance
- Options for varying adhesion, thermal & environmental requirements
- UL & CSA compliant options
- RoHS compliant
- ESD options

Useful Applications

- Labeling of components exposed to high temperatures
- Labeling for top or bottom of printed circuit boards during thermal & soldering cycles
- Finished product labeling
- Barcode tracking throughout manufacturing & assembly of electrical components



High Temperature Products



Specifications for LGI's High Temperature Label Products

LGI Material	Substrate		Adhesive		Application	Ribbons			Processing								
	Thickness	Finish †	RoHS Compliant *	Thickness		Removable **	Permanent **	Temperature Range	ESD	LGI-450	LGI-460	LGI-470	Lead Free Processing	Through-Hole Top Side	Through-Hole Bottom Side	SMT Top or Bottom Side	After Process
LG-1243 - White Polyester	.0020"	G	●	.0010"	●		-40° to 204°C (-40° to 400°F)	●	●	○	○		●				●
LG-1274 - White Polyester	.0020"	G	●	.0010"		●	-40° to 204°C (-40° to 400°F)	●	●	○	○		●				●
LG-1259 - Tan Polyimide	.0020"	M	●	.0020"	●		-40° to 537°C (-40° to 1000°F)		○	●	○		●	●	●	●	●
LG-1245 - Yellow Polyimide	.0020"	G	●	.0023"	●		-40° to 537°C (-40° to 1000°F)		●	○	○		●	●	●	●	●
LG-1253 - White Polyimide	.0020"	G	●	.0020"	●		-40° to 537°C (-40° to 1000°F)		●	○	○		●	●	●	●	●
LG-1268 - White Polyetherimide	.0020"	G	●	.0020"	●		-40° to 315°C (-40° to 600°F)		●	○	○		●	●	●	●	●
LG-1256 - White Polyimide	.0020"	M	●	.0020"	●		-40° to 537°C (-40° to 1000°F)		○	●	○		●	●	●	●	●
LG-1216 - White Polyimide	.0020"	S	●	.0010"		●	-40° to 537°C (-40° to 1000°F)		●	○	○		●	●	●	●	●
LG-1225 - White Polyimide	.0010"	S	●	.0010"	●		-40° to 537°C (-40° to 1000°F)		●	○	○		●	●	●	●	●
LG-1217 - White Polyimide	.0020"	S	●	.0020"	●		-40° to 537°C (-40° to 1000°F)		●	○	○		●	●	●	●	●
LG-1235 - White Polyimide	.0010"	M	●	.0010"	●		-40° to 537°C (-40° to 1000°F)		●	○	○		●	●	●	●	●
LG-1237 - White Polyimide	.0020"	M	●	.0020"	●		-40° to 537°C (-40° to 1000°F)		●	○	○		●	●	●	●	●
LG-1265 - White Polyimide	.0020"	G	●	.0010"	●		-40° to 537°C (-40° to 1000°F)	●	●	○	○		●	●	●	●	●
LG-1267 - White Polyimide	.0020"	G	●	.0020"	●		-40° to 537°C (-40° to 1000°F)	●	●	○	○		●	●	●	●	●
LG-1200 - White Polyacrylate	.0020"	M	●	.0010"	●		-40° to 300°C (-40° to 600°F)		○	○	●		●				●

- † M - Matte G - Gloss S - Semi-gloss
- * RoHS compliance subject to change. For verification, contact LGI
- ** Adhesive bond strength may be affected by the surface it is adhered to
- Best ribbon for material
- Alternate ribbon
- Not compatible

LGI's High Temperature Ribbons

LGI-450	Black - Ultra durable premium resin thermal transfer ribbon. Width and length are fully customizable.
LGI-460	Black - General use wax/resin thermal transfer ribbon. Width and length are fully customizable.
LGI-470	Black - Premium resin thermal transfer ribbon. Width and length are fully customizable.

LGI's high temperature ribbons are specially designed for the printed circuit board industry and are suitable for use with thermal transfer printers. Contact us for printer compatibility.

Results may vary; testing to actual application environment is recommended.

