



# Don't get left out in the cold!

## Cryogenic

When your application requires a sub-zero temperature, you need a label that you can rely on to adhere without lifting or falling off. LGI International's new cryogenic product line reliably performs in these adverse conditions. Whether you have a standard label application or a unique problem that requires a custom engineered solution, you can count on LGI's cryogenic labels to see the job through.

## Engineered solutions

Setting the mark for our industry, LGI works closely with leading material suppliers at the design level to engineer technically superior products tailored to the needs of our customer base. As a result, LGI's cryogenic line offers tear resistant synthetic materials that will not be weakened by moisture or extreme cold conditions. Our materials are top coated for use with thermal transfer printers and can be preprinted, serialized, barcoded or customized to your specific needs.

## Reliable adhesive

LGI's cryogenic adhesive, when applied to a wide range of clean surfaces such as plastic or glass at room temperature, will withstand temperatures to  $-80^{\circ}\text{C}$ . Whether you require a label that will adhere in extremely low temperatures for clinical specimens, pharmaceutical suspensions or preservation of perishable items, you can count on LGI's labels to perform reliably every time.

## Product Highlights

- Aggressive adhesion
- Withstands  $-80^{\circ}\text{C}$  to  $75^{\circ}\text{C}$
- Durable synthetic material
- Thermal transfer printable

## Useful Applications

- Clinical trial specimens
- Pharmaceutical preservation
- Laboratory research
- Product/sample ID
- Preprinted forms



 **LGI International**  
Advancing the technology of labels

## Specifications

**General Description:** White oriented polypropylene 1.6 mil film with a slightly matte topcoat designed for permanent low temperature labeling applications down to temperatures of -80°C when applied at room temperature to a clean dry surface.

**Application:** The substrate can be used with most thermal transfer and dot matrix printers, typewriters and various pencils and pens including permanent markers. The adhesive can be applied to a wide range of surfaces including plastics and glass specimen vials and is specifically engineered for cold temperature adhesion. The adhesive provides aggressive adhesion that will not lift even when brought back to room temperature.

### Product Data

**Face Stock:** 1.6 mil matte white oriented polypropylene top coated for thermal transfer printing

**Adhesive:** 0.8 mil

**Liner:** 40# bleached

**Adhesive Properties:** 180° Peel from Stainless Steel, 10 IPM, 1" width  
5 min. dwell >240 grams  
30 min. dwell >550 grams  
60 min. dwell >550 grams  
24 hr. dwell >550 grams  
Shear: PSTC-7 .5' x .5" 500 gram load <30 min

**Service Range:** -80°C to 75°C with minimum application temperature >15°C

Due to the differences in printing systems, it is the responsibility of the user to test die cut material to assure compatibility with specific printers and environments.

The above data represents product averages, allowing for industry accepted variances. This construction should be tested in the end-use conditions to insure that it meets the requirements of the specific application. Suitability for any given application is the responsibility of the user.

