



# Labels that Last

## 687 Clear CryoLabel® Frost

**Description:** This thin, flexible material is highly conformable making it perfect for small diameter test tubes and for fitting into the tight cavities of vial racks and storage boxes. A smooth, gloss topcoat provides excellent print results with durable thermal transfer resin ribbons; good print results are also achieved with flexo and UV inkjet inks. The durable face offers excellent water, scratch, chemical and solvent resistance.

The adhesive exhibits excellent low temperature and cryogenic performance with good peel strength from a variety of surfaces such as polypropylene, polyethylene, polycarbonate, glass and metal. Best bonding is achieved by rubbing the label firmly.

This is a perfect label for laboratory test tube applications where you want to easily see the tube contents:

- > Works in both freezer and liquid nitrogen storage.
- > Demonstrates good bonding when applied to frozen containers with light to moderate frost.
- > Ideal for wrap-around label designs to over laminate printed information.
- > Performs well in autoclave processes (121°C saturated steam for 30 minutes).
- > Sustains freezer-to-boiling-water cycles (LN<sub>2</sub> for 30 minutes then boiling water (100°C) for 10 minutes.
- > Handles freezer-to-incubation cycles (-70°C for 30 minutes, CO<sub>2</sub> incubator for 45 minutes with approximately 5% CO<sub>2</sub>).

NOTE: Due to the thin construction of this product, special die tooling may be required and must be on 3" or 1.5" cores only.

### Recommended Printing Ribbons:

T68, T80, and T182 Resins work well for printing directly on the clear film.  
For printing over white blocks, use T68 Resin.

	Face Stock	Adhesive	Liner
Type	Polyester	Permanent	Silicone Paper
Color	Clear, Gloss	Clear	White
Caliper	1.0 mil	0.8 mil	3.2 mil
BaseWeight	-	-	55#
Min. Application Temp.	-	+10°F (-12°C)	-
Service Temp. Range	-	LN <sub>2</sub> (-321°F/-196°C) to 250°F (121°C)	-

	Temperature	Humidity	Shelf Life
Recommended Storage Conditions	70°F (21°C)	50% R.H.	Two Years (when stored in plastic bags)

All descriptive information, typical performance data, and recommendations for this product should be used solely as a guide. Furnishing such information is merely our attempt to assist you as indicated by your requested application. These specifications do not constitute a warranty under any varying results. All labels are sold with the understanding that the purchaser has independently tested and determined the suitability of the product for the intended application.

**NOTE:** Due to the variety of application conditions, Electronic Imaging Materials strongly encourages the end-user to do thorough testing of all label products under consideration to make sure they will meet the application requirements.