EMULSION ON MYLAR CODE STRIPS

Material- Polyethylene terephthalate (PET or Mylar, a thermoplastic polyester)

Minimum feature size-	**12 um**
Feature Accuracy (line width)-	**2.5um**
Overall Accuracy (over 800mm)	**25um @ 70F / RH 50%**
Maximum Length-	**800mm**
Accuracy of Pattern to Part Outline	**+/- 50um**
Thickness- 7-mil	**(0.007 +/-.0003-in., 0,18 mm)**
Maximum operating temperature-	**100 C**
Thermal Coefficient of Linear Expansion-	**.001% per degree F .0018% per degree C**
Humidity Coefficient of Linear Expansion-	**.0013% per % RH**
Specific Gravity	**1.39**
Standard Pattern to Substrate	**+/-30um**

Temperature Effects

Temperature	Physical Behavior
490 F (255 C)	**Melting Point. Solid becomes fluid.**
255 F (130 C)	**Distortion and Shrinkage. Crystallization Occurs.**
>212 F (100 C)	**Distortion can occur with non-uniform heating.**
212 F (100 C)	**Shrinkage up to 0.15% occurs, stabilizes in ~24 hr.**
180 F (82 C)	**Shrinkage up to 0.06% occurs, stabilizes in ~48 hr.**
176 F (80 C)	**Transition Temperature. Film loses some stiffness.**
120 F (49 C)	**Shrinkage up to 0.02% occurs, stabilizes in 10 days.**

UL 94V-2 Compliance	**Meets or exceeds requirements contained in UL 942V-2**