



EMULSION ON MYLAR CODE DISCS

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

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| Minimum feature size- | 12 Micron |
| Transmissive Mode Thickness- | (0.007 +/-0.0003-in., 0,18mm) |
| Reflective Mode Thickness- | (0.013 +/-0.001-in., 0,33mm) |
| Maximum Diameter | 800mm (31.50") |
| 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 |

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 |