



EMULSION DISC SPECIFICATIONS

EMULSION ON MYLAR CODE DISCS

Material- Thermoplastic polyester-	Kodak LPF
Minimum feature size-	12 Micron
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
Punching Burrs-	No burrs > .007" (0.2 mm)
Standard Pattern to Substrate TIR	.002" (.001" concentricity)

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

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