



PRODUCT DATA SHEET

LC-E252LT

250° Curing Thermally Conductive Epoxy Film Adhesive

Description

LC-E252LT is a 212°F (100°C) to 300°F (150°C) curing epoxy film adhesive designed to be thermally conductive. Excellent for electronics bonding such as heat sinks and electrical insulation applications.

Advantages

LC-E252LT demonstrates excellent adhesion and toughness throughout various cure cycles using both press and vacuum bag curing. LC-E252LT exhibits excellent resistance to humidity. LC-E252LT is electrically insulating, thermally conductive, and easily die cut. LC-E252LT can also be supplied both supported and unsupported in multiple weights and thicknesses.

Physical Properties

Density: 1.5 g/cm³ per ASTM D792
Gel Time @ 212°F (100°C): 10 – 15 minutes
 @ 275°F(135°C): 2 – 3 minutes
Color: Black Grey
Tack: Low

Shelf Life/Out Life/Storage

Shelf Life: 12 months from Certification Date
Out Life: 3 days @ 70°F (21°C)
Storage Temp: 0° F or below

Processing/Cure Cycle Recommendations

LC-E252LT can be processed at temperatures from 212°F (100°C.) for 60 minutes to 300°F (150°C.) for 10 minutes. A 212°F (100°C) cure for 60 minutes is optimal in most cases using press, vacuum bag or autoclave.

Mechanical, Thermal, and Electric Properties		
Property	Tested per Specification	R.T. (75 °F)
Tensile Shear (psi)	ASTM D1002	2500
Areal Weight (psf)	LCM – 02	.050 ±3
Film Thickness (uncured) (in)	LCM – 24	.005 ±3
Dielectric Strength (volts/mil)	ASTM D149	500
Thermal Conductivity ($\frac{W}{m \cdot K}$)	Laser Flash Method	0.60

*Tests performed using LC-E252LT-104 (supported) .050 psf, press cured @ at 212°F (100°C), 15 psi pressure.

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