



PRODUCT DATA SHEET

LC-E231
250 Degree Curing
Epoxy Film Adhesive

Description

LC-E231 is a 250°F (121°C) epoxy film adhesive specifically designed for bonding metal to metal or metal to various core materials.

Advantages

LC-E231 demonstrates excellent adhesion and toughness throughout various cure cycles using both press and vacuum bag curing. LC-E231 exhibits excellent resistant's to humidity as well as a variety of test fluids. LC-E231 can also be supplied both supported and unsupported in multiple weight and thicknesses.

Physical Properties

Density: 1.2 G/cm³ per ASTM D792
Gel Time @ 275°F (135°C): 4 -5 minutes
Glass Transition Temperature (T_g): 230°F (110°C)
Color: Cream
Tack: Medium

Shelf Life/Out Life/Storage

Shelf Life: 6 months from Certification Date
Out Life: 14 days @ 70°F (21°C)
Storage Temp: 40° F or below

Processing/Cure Cycle Recommendations

LC-E231 can be processed at temperatures from 235°F. (113°C.) for 90 minutes to 300°F. (149°C.) for 25 minutes, using low, medium or high pressure. A 250°F (121°C) cure for 60 minutes is optimal in most cases using press, vacuum bag or autoclave processing with 25 psi pressure.

Mechanical Properties				
Property	Tested per Specification	-67 °F	R.T. (75 °F)	160 °F
Tensile Shear (psi)	MMM-A-132	3750	4925	3300
Sandwich Peel Strength (inch lbs. / 1" width)	Mil-A-25463	11.2	14.5	14
Flatwise Tension (psi)	Mil-A-25463	1070	1150	900
Flexural Strength (lbs)	Mil-A-25463	2450	2500	1900

*Tests performed using LC-E231M (supported) .060 psf, press cured @ at 250° F, 25 psi pressure.

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