

# EPICLON<sup>®</sup> N-890

## Modified Novolac type epoxy resin

### General description

EPICLON<sup>®</sup> N-800 series are multi-functional epoxy resins derived from modified novolac, and designed for application of high performance epoxy molding compound (EMC) for semi-conductor, especially for surface mount devices (SMD). The most advantage of these products is high curability and high glass transition temperature compared with cresol novolac type (ECN). So N-800 series are suitable for electronics applications, EMC, PWB, Resist Ink and powder coatings.

### Typical properties\*

Appearance	Solid
Epoxy equivalent, g/eq	211
Softening point, °C	84
ICI viscosity, dPa.s (poise)	12.0
Hydrolyzable Cl content, wt ppm	100

\*Typical properties; not to be construed as specifications.

### Evaluation formulation

	Parts by weight
EPICLON <sup>®</sup> N-890	100
Hardener: PHENOLITE <sup>®</sup> TD-2090 (Novolac type phenolic resin)	49
Accelerator: 2-ethyl-4-methyl imidazole	0.05
Solvent (MEK etc.)	100

Curing schedule : 200°C x 1.5hrs.

### Curability and Cured resin properties

Tg by DMA, °C	223
Solder heat resistance, @260°C 6hrs	Pass
Oven heat resistance, @288°C, min	>60

### Storage

EPICLON<sup>®</sup> N-890 has a shelf-life of at least 6 month if it is stored in a cool, dry area.