

## EPS 2815

### HIGH HDT POTTING & ADHESIVE EPOXY SYSTEM

#### DESCRIPTION

EPS 2815 is a medium viscosity epoxy system designed for higher temperature applications up to 400 Deg F, such as armature encapsulation, transformer potting, filament windings, etc.

#### FEATURES

Unfilled  
Rigid 85 D  
Excellent Electrical Properties  
400 Deg F HDT  
Good Hydrolytic Stability

#### Liquid

##### Properties

	<u>Epoxy 320A</u>	<u>AMN 370B</u>	<u>Mixed</u>
Appearance	Amber Liquid	Amber Liquid	Amber Liquid
Viscosity (cps)	5,000-8,000 (140F)	100-200 (77F)	2,500-4,000 (140F)
Density (lbs/gal)	9.50-9.70	9.00-9.20	9.40-9.60

#### PHYSICAL PROPERTIES

Hardness, Shore D		85	
Dielectric Constant (KHZ)		3.9	
Dissipation Factor (KHZ)		0.013	
Volume Resistivity ohm-cm		1.13 X 10 <sup>16</sup>	
Dielectric Strength volts/mil		549	
ARC Resistance seconds		120	
Moisture Resistance 3 Weeks Immersion H <sub>2</sub> O			
Weight Gain		0.7%	
Impact Strength, Ft. Lbs/In		.44	
Compressive Strength (psi)		35,600	
Tensile Strength (psi)		9,100	
Elongation, %		2.90	
HDT Deg F		400	

## EPS 2815 cont:

### PROCESSING PARAMETERS

Process Epoxy resin 320A and Amine Hardener 370B between 120 and 200 Deg F.

Mold Temperature: 120 to 200 degrees F.

Mix Ratio: 100 parts Resin 320A to 16.0 parts Amine 370B by weight.

Degas mixture if possible.

Pot Life: (200g mass) (140 Deg F) 30 to 40 minutes.

Demold: 2-3 hours. Demold time maybe shortened by using higher mold and process temperatures.

Post Cure: 2 hours @ 350 Deg F plus 24 hours at 77 Deg F.

### STORAGE

Systems should be stored unopened in air tight containers at 60-90 degrees F.

### HANDLING PRECAUTIONS

For complete and updated health and safety information, read the MATERIAL SAFETY DATA SHEETS. Do not handle or use until the MATERIAL SAFETY DATA SHEET has been read and understood.