

FORSCH POLYMER CORP.

TECHNICAL DATA BULLETIN

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

<u>Liquid Properties</u>	<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 ¹⁶
Dielectric Strength volts/mil	549
ARC Resistance seconds	120
Moisture Resistance 3 Weeks Immersion H ₂ 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.

This product is warranted to be of uniform quality within manufacturing tolerances. Since no control is exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. The obligation herein shall be limited to refunding the purchase price of that portion of the material proven to be defective.

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