

EPS 2825

LOW SHRINKAGE EPOXY SYSTEM

DESCRIPTION

EPS 2825 is a low viscosity, low shrinkage epoxy system. Designed for application in pre impregnated laminates, filament wound pipe, electrical potting, encapsulation and casting.

FEATURES

Unfilled
Rigid 80 D
Excellent Electrical Properties
Low Viscosity
Good Hydrolytic Stability
Low Shrinkage

Liquid

Properties

Epoxy 150A

AMN 140B

Mixed

Appearance	Amber Liquid	Lt. Brown Liquid	Lt. Brown Liquid
Viscosity (cps)	1,000-2,000(77F)	400-1,000(77F)	2,000-2,500(77F)
Density (lbs/gal)	9.00-9.20	9.50-9.70	9.20-9.40

PHYSICAL PROPERTIES

Hardness, Shore D	80
Dielectric Constant (KHZ)	3.80
Dissipation Factor (KHZ)	0.14
Volume Resistivity ohm-cm	2.0×10^{15}
Moisture Resistance 3 Weeks Immersion H ₂ O	
Weight Gain	0.6%
Impact Strength, Ft. Lbs/In	2.13
Compressive Strength (psi)	12,000
Tensile Strength	7,815
Elongation, %	6.00
HDT Deg F	180

EPS 2825 cont:

PROCESSING PARAMETERS

Process Epoxy resin 150A and Amine Hardener 140B between 55 and 150 Deg F.

Mold Temperature: 55 to 150 degrees F.

Mix Ratio: 100 parts Resin 150A to 66.0 parts Amine 140B by weight.

Degas mixture if possible.

Pot Life: (200g mass) (77 Deg F) 20 to 35 minutes.

Demold: 3-4 hours. Demold time maybe shortened by using higher mold and process temperatures.

Post Cure: 48 hours @ 77 degrees 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.