

Technical Data:

Issued: Sept. 2006
Revision: July 2016, Page: 1

EP 145/EPC 145

High Filled Epoxy Compound for Potting and Encapsulation

Product Description EP 145/EPC 145 is a high filled, moderate viscosity, low temperature curing epoxy compound for potting and encapsulation, exhibiting high mechanical and electrical insulating properties, suitable for prolong pot life application.

- Features & Benefits**
- Low shrinkage
 - Room temperature cured
 - Moderate viscosity
 - High filled
 - Long pot life
 - High penetration

Applications Encapsulation and potting of electrical and electronic components.

Typical Uncured Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Base Resins	Base (A) Hardener (B)	Epoxy Compound Cycloaliphatic Amines
Appearance/Color	Base (A) Hardener (B)	black clear
Viscosity, per ASTM-D-2393, mPa*s @25°C	Base (A) Hardener (B) Mixed A+B	50000 45 6000
Density, g/cm³ @ 25°C	Base (A) Hardener (B)	1.83 ± 0.03 0.98 ± 0.02
Mix Ratio (A:B)	By weight By volume	100:12 100:22

Instructions for use:

Weigh required amount of resin and hardener into a clean container in the recommended ratio. Blend thoroughly being careful to scrape sides and bottom of the container for 3-4 minutes to ensure uniform mixture. To produce a void-free casting the mixture should be deairing at 2-5 mmHg for 5-10 minutes to remove trapped air

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CURED PROPERTIES	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.	
Mechanical	Color	black
	Pot-life @ 25°C, (100g), min	120-150
	Gel-time @ 25°C, (100g), min	260
	De-mold @ 25°C, hr	24
	Final curing @ 25°C, days	7
	Hardness, Shore D (after 7 days)	85
	Tensile Strength, MPa	53
	Tensile Elongation, %	0.8-1.0
	Flexural Strength, MPa	76
	Flexural Modulus, MPa	7200
	Linear Shrinkage, %	0.2-0.3
	Heat Distortion Point, °C	62
	Service Temperature, °C	-40 to 130

Storage and Handling

The shelf life of the EP 145 is 12 months at 20-35°C.
For the best results, store in tightly closed original containers.
Certain resins and hardeners are susceptible to crystallization. If crystallization occurs, warm the container to 50-60°C until the crystals have dissolved.
Stir and allow content to cool to room temperature before use.

Limitation of Liability

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