

## Technical Data:

Issued: Sept. 2006

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## EP 118FC

Two-component Low Viscosity Potting and Casting Epoxy Compound

### Product Description

EP 118FC is a fast cure version of EP 118. It is an easy-to-use, equal ratio, medium viscosity epoxy compound, designed for protecting electronic components and systems. EP 118FC exhibits high mechanical and electrical insulating properties

### Features & Benefits

- Fast curing
- Medium Viscosity
- Equal mix ratio
- High penetration
- Non-abrasive

### 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.

Components	Base (A) Hardener (B)	Epoxy Polyaminoamides
Color	Base (A) Hardener (B)	black white
Viscosity, per ASTM-D-2196, mPa*s @25°C	Base (A) Hardener (B) Mixed A+B	4500-6000 10000-15000 6000-10000
Density, g/cm <sup>3</sup> @ 25°C	Base (A) Hardener (B)	1.33 1.55
Mix Ratio (A:B)	By weight	1:1

### Instructions for use:

Premix the contents prior to use to assure uniformity.  
Weigh equal amount of resin and hardener into a clean container.  
Blend thoroughly scraping sides and bottom of the container.  
Pour into cavity or mold

### Recommended Curing Schedule:

Overnight at room temperature, or 2 hours at 25°C + 2 hours at 80°C

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<b>Color</b>	black
<b>Gel-time @ 25°C, (100g), min</b>	50
<b>Hardness, Shore D</b>	84
<b>Tensile Strength, MPa</b>	40
<b>Tensile Elongation, %</b>	1.4
<b>Flexural Strength, MPa</b>	82
<b>Flexural Modulus, MPa</b>	3800
<b>Heat Distortion Point, °C</b>	54
<b>Service Temperature, °C</b>	-40 to 90

**Storage and Handling**

The shelf life of the EP 118FC 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.

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