

Technical Data:

Issued: Sept. 2006
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EP 118

Low Viscosity Potting and Casting Epoxy Compound

Product Description EP 118 is an easy-to-use, equal ratio, low viscosity, low temperature curing epoxy compound, designed for protecting electronic components and systems. EP 118 exhibits good mechanical and electrical insulating properties

- Features & Benefits**
- Low shrinkage
 - Room temperature cured
 - Low viscosity
 - Medium Filled
 - Non-abrasive
 - 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 Polyamides
Appearance/Color	Base (A) Hardener (B)	black white
Viscosity, mPa*s @25°C	Base (A) Hardener (B) Mixed A+B	4500-6000 2500-3500 2900-4500
Density, g/cm³ @ 25°C	Base (A) Hardener (B)	1.33 ± 0.02 1.42 ± 0.02
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 4 hours at 25°C + 2 hours at 80°C

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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.	
Color		black
Pot-life @ 25°C, (100g), min		30-40
Gel-time @ 25°C, (100g), min		90
Hardness, ASTM-D-2240, Shore D		80-82
Tensile Strength, ASTM-D-638, MPa		20-30
Tensile Elongation, ASTM-D-638, %		0.5-1.3
Flexural Strength, ASTM-D-790, MPa		65-80
Flexural Modulus, ASTM-D-790, MPa		2600-4000
Linear Shrinkage, %		0.3
Heat Distortion Point, ISO-75, °C		45
Service Temperature, °C		-40 to 90

Storage and Handling

The shelf life of the EP 118 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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