



## General description

NM EI Epoxy 960/980 is a two component low-viscosity epoxyresin for casting and impregnation. The resin is coloured dark blue. The air-release when casted is normally very good, but encapsulation of coils might need use of vacuum.

When mixing a full pack, pour the hardener into the bigger bottle of resin. Put on the cap again and shake the bottle for some minutes. If smaller portions shall be used, it is necessary to use a scale for accurate weight of the components. Casting volumes exceeding 150 ml should cure at lowered temperature to avoid shrinking stress caused by high exothermic heat.

Cure the cast mixture for at least 24 hours at 23°C. Curing at elevated temperature, for ex. +40°C, will reduce the time to eight hours.

Observe! Do not leave any resin-mixture in the plastic bottle. The exothermic heat might melt the bottle.

## Typical applications:

- Incapsulation of electronic components.
- Impregnation of winded coils

## Typical properties

### **Resin:**

NM EI Epoxi 960

### **Hardener:**

NM Härdare 980

### **Mixing ratio:**

Resin-Hardener 70-30 by weight

Resin-Hardener 100-51 by volyme

<i>Hardness:</i>	80 Shore D
<i>Density:</i>	1088 kg/m <sup>3</sup>
<i>Viscosity:</i>	250 mPa·s
<i>Potlife 100g 20°C:</i>	60 minutes
<i>Compressive strenght:</i>	120 MPa
<i>E<sub>c</sub>-modulus:</i>	3.7 GPa
<i>Tensile strenght:</i>	50 MPa
<i>Thermal expansion coefficient:</i>	60·10 <sup>-6</sup> cm/cm·°C
<i>Volume resistivity:</i>	10 <sup>15</sup> Ω·cm
<i>Dielectric constant 50 Hz:</i>	4
<i>HDT:</i>	50°C
<i>Normal packing:</i>	0.525 + 0.225 = 0.750 kg
<i>Cleaning solvent:</i>	Acetone

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