

# TECHNICAL DATA SHEET

Version: 11/2011

**Letoxit® LH 087**

## Type

two component epoxy resin with very high thermal conductivity

## Application

Typically used for encapsulation of electrical parts or modules that are used for temperature measurement or heat sink. The material is highly resistant to chemicals and solvents.

## Application method

It is necessary to mix part A in whole volume before weighing carefully; then it is needed to stir carefully the mixture of part A and part B. To release air bubbles from the mixture it is recommended to apply vacuum during mixing. For large production it is advised to use mixing applicators with preheating both components to 50°C. Using of MOLD RELEASE 122 S guarantees perfect demolding of castings.

## Properties

	Component A	Component B	Units
<b>Material</b>	epoxy resin with aluminum oxide	aliphatic amine	-----
<b>Color</b>	blue	transparent, yellowish	-----
<b>Density</b>	2.45-2.55	1.04	g/cm <sup>3</sup>
<b>Mixing ratio</b>	100	5,5	weight parts
<b>Mixing ratio</b>	100	14	volume parts
<b>Brookfield viscosity</b>	80.000-110.000	30-50	mPa.s

## Properties of LH 087

<b>Density</b>	2.40-2.55
<b>Working life at 25°C, 100g</b>	30 min
<b>Curing at room temperature</b>	24 h
<b>Curing at +65°C</b>	3 h
<b>Thermal resistance</b>	-40 to +110°C
<b>Hardness according to DIN 53505</b>	80 Shore D
<b>Flexural strength</b>	min 80 N/mm <sup>2</sup>
<b>E modulus at 35°C</b>	9.00 GPa
<b>Thermal conductivity</b>	1,602 W/m.K
<b>Electrical strength</b>	16 kV/mm
<b>Surface resistivity</b>	1.35x10 <sup>15</sup>



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<b>Volume resistivity</b>	1.05x10 <sup>15</sup>
<b>Dielectric constant at room temperature at 1 MHz</b>	5.7
<b>Linear shrinkage</b>	0.55%
<b>Dissipation factor at room temperature at 1 MHz</b>	0.03

### Storage temperature

min. + 20°C, max. + 30°C

### Storage period

6 months in closed container

### Safety during processing:

see Safety sheet

### Producer and Supplier:

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