RAKU[®] TOOL EI-2500 / EH-2973



Epoxy Infusion System

Heat resistant

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Applications

Resin infusion

• RTM

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Key Properties

- Room temperature curing
- No brittleness during room temperature cure overnight, easy to demold
- Good wetting properties
- Temperature resistant up to 130°C

Processing Properties

		Unit	EI-2500	EH-2973
Color	visual		colorless	yellowish
Mix ratio		pbw	100	32
Mix ratio		pbv	100	40
Density	DIN 2811-1	g/cm³	ca. 1.17	ca. 0.94
Viscosity at 25 °C	DIN 53019-1	mPa·s	800 - 1,300	50 - 80

		Unit	EI-2500 / EH-2973
Mix viscosity at 25 °C	DIN 53019-1	mPa·s	500 - 700
Pot life at 25 °C	100 ml	min	130 - 160
Pot life at 40 °C	100 ml	min	50 - 55
Pot life at 25 °C	500 ml	min	70 - 80
Max. layer thickness		mm	8
Demold time		h	24

Cured / Mechanical Properties

Cure		Unit	EI-2500 / EH-2973 16h at RT + 8h at 80°C	EI-2500 / EH-2973 16h at RT + 8h at 120°C
Color		visual	yellowish	yellowish
Density	ISO 1183	g/cm³	ca. 1.10	ca. 1.10
Coefficient of thermal expansion	ISO 11359	10^-6K^-1	70 - 80	60 - 70
Glass transition temperature, Tg	DSC	°C	108 - 113	130 - 135
Tensile strength	ISO 527	MPa	75 - 80	75 - 80
Flexural strength	ISO 178	MPa	125 - 130	125 - 130
Flexural modulus	ISO 178	MPa	2,700 - 3,200	2,700 - 3,200

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Processing

The processing temperature and material temperature should be between 20-25°C. Mix the two components thoroughly in the ratio indicated.

Degassing is recommended.

The mechanical properties and temperature resistance are only obtained through a post cure according to the recommended cure schedule.

Recommended cure schedule

After initial curing at room temperature for 12-24 hours depending on the size and thickness of the parts, the parts must be heated up to 120°C in steps and post cured for 8 hours at 120°C, then cooled down gradually. The curing time at room temperature, heating and cooling rate depend on the size and thickness of the parts.

Packaging	
RAKU® TOOL EI-2500	200 kg, 20 kg
RAKU® TOOL EH-2973	23 kg, 4,5 kg

Storage

Original containers should be kept tightly sealed and stored at ambient temperatures (15°C to 30°C). If properly stored the products have the shelf-life indicated on the product label. Partly used containers should always be sealed appropriately and used up as soon as possible.

Handling precautions

Good workplace ventilation is to be ensured during processing. At the same time, the employer's liability insurance association's industrial hygiene safety regulations regarding the handling of reaction resins and their hardeners are to be observed. Please take heed of the appropriate safety data sheets.

Our recommendations on the use of the material are based on many years of experience and current scientific and practical knowledge. They are, however, provided without any obligation on our part and do not relieve the buyer of the need for suitability tests. They do not constitute a legal relationship, nor are any protected third party rights whatsoever affected thereby. The technical data sheet is not a specification, but contains only approximate values.