# **RAKU® TOOL**



# EL-2200 / EH-2900

# **Epoxy Laminating and Multipurpose Resin**

Room temperature curing, unfilled, low viscosity

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## **Key Properties**

- Room temperature curing
- Good compatibility with glass fibers and fillers
- With short glass fibers (6mm) also suitable for coupling layers
- With mineral and metallic fillers suitable as backing casting

## **Applications**

- Universal production of tools and tooling aids
- Binder for quartz sand and fabrics

## **Processing Properties**

		Unit	EL-2200	EH-2900
Color	visual		colorless	yellowish
Mix ratio		pbw	100	20
Density	DIN 2811-1	g/cm³	ca. 1.10	ca. 1.03
Viscosity at 25 °C	DIN 53019-1	mPa·s	1,500 - 2,500	450 - 750

		Unit	EL-2200 / EH-2900
Mix viscosity at 25 °C	DIN 53019-1	mPa·s	1,000 - 1,300
Pot life at 25 °C	500 ml	min	70 - 90
Max. layer thickness		mm	8
Demold time		h	16

#### **Cured / Mechanical Properties**

Cure		Unit	EL-2200 / EH-2900 7 days at RT or 14h at 40°C
Color		visual	yellowish
Density	ISO 1183	g/cm³	ca. 1.10
Deflection temperature, HDT	ISO 75	°C	53 - 58
Glass transition temperature, Tg	DSC	°C	55 - 60
Flexural strength	ISO 178	MPa	110 - 115
Flexural modulus	ISO 178	MPa	2,500 - 3,000

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#### Processing

The processing temperature and material temperature should be between 20-25°C.

Degassing is recommended.

Impregnate each layer of cloths to construct the laminate layer by layer.

Post curing will improve final properties.

Packaging	
RAKU® TOOL EL-2200	220 kg, 25 kg
RAKU® TOOL EH-2900	204 kg, 22 kg, 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.

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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.