

RAKU-TOOL[®] EL-2200 / EH-2900

Epoxy Laminating and Multipurpose System

RT curing, unfilled, low viscosity

PC - Rev.-Status: 01- 2010/06/25

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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
- Backing resin with mineral and metal fillers

Applications

- General tool building and tooling aids
- Binder for Quartz sand and fabrics

Processing Properties

			EL-2200	EH-2900
Color	visual		Clear	Clear
Mix ratio		parts by weight	100	20
Density	ISO 1183	g/cm ³	1.10	1.03
Viscosity at 25 °C	ISO 2555	m Pa.s	2000-2300	450-750

			EL-2200 / EH-2900
Mix viscosity at 25 °C	ISO 2555	m Pa.s	1000-1300
Pot life at 25 °C	500 ml	min	70
Max. layer thickness		mm	8
Demold time		h	16

Cured / Mechanical Properties

Cure: 7 days at RT or 14h at 40°C

			EL-2200 / EH-2900
Appearance	visual		Clear
Density	ISO 1183	g/cm ³	1.1
Deflection temperature, HDT	ISO 75	°C	53-58
Glass Transition Temperature, Tg	DSC	°C	48-53
Flexural strength	ISO 178	MPa	98-93
Flexural modulus	ISO 178	MPa	2000-2500

Processing

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

Mix the two components thoroughly in the ratio indicated. Impregnate each layer of cloths to construct the laminate layer by layer. Post-curing will improve final properties.

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Packaging

RAKU-TOOL [®] EL-2200	25 kg / 220 kg / 1000 kg
RAKU-TOOL [®] EH-2900	5 kg / 22 kg / 200 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.