

EL-2200 / EH-2900

Epoxy Laminating and Multipurpose Resin

Room temperature curing, unfilled, low viscosity

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	ISO 1183	g/cm ³	ca. 1.10	ca. 1.03
Viscosity at 25 °C	DIN 53019-1	mPa·s	2,000 - 3,000	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

		Unit	EL-2200 / EH-2900
Cure			7 days at RT or 14h at 40°C
Color		visual	yellowish
Density	ISO 1183	g/cm ³	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	1.000 kg, 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.