

RAKU-TOOL[®] EL-2203 / EH-2970-1

Epoxy Laminating System

Temperature resistant, unfilled epoxy system

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Key Properties

- Low viscosity, no degassing under vacuum
- Excellent wetting properties
- Flows very well
- Cures well at room temperature
- Temperature resistant up to 120°C

Applications

- Resin infusion

Processing Properties

			EL-2203	EH-2970-1
Color	visual		Clear	Clear
Mix ratio		parts by weight	100	30
Density	ISO 1183	g/cm ³	1.16	0.96
Viscosity at 25 °C	ISO 2555	m Pa.s	1000 - 1500	100 - 150

			EL-2203 EL-2970-1
Mix viscosity at 25 °C	ISO 2555	m Pa.s	400 - 600
Pot life at 25 °C	500 ml	min	60
Max. layer thickness		mm	8
Demold time		h	16

Cured / Mechanical Properties

Cure: after initial hardening post cure in steps up to 120°C			EL-2203 EL-2970-1
Appearance	visual		Clear
Density	ISO 1183	g/cm ³	1.1
Deflection temperature, HDT	ISO 75	°C	115 - 120
Glass Transition Temperature, Tg	DSC	°C	110 - 120
Flexural strength	ISO 178	MPa	125 - 135
Flexural modulus	ISO 178	MPa	2800 - 3300

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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.

Packaging

RAKU-TOOL® EL-2203	5 kg, 20 kg
RAKU-TOOL® EH-2970-1	3 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.
