RAKU® TOOL EG-2107 / EH-2950-1

Epoxy Gelcoat System

High temperature resistant Epoxy System

Key Properties

- High temperature resistance (180°C)
- Easy to apply
- Good workability after final cure

Applications

- High temperature molds
- Prepreg lay-up tools

Processing Properties

			EG-2107	EH-2950-1
Color	visual		Black	Yellowish
Mix ratio		parts by weight	100	14
Density	ISO 1183	g/cm³	ca. 1.76	ca. 1.01

			EG-2107 / EH-2950-1
Pot life at 25 °C	250 ml	min	70-90
Demold time		h	24

Cured / Mechanical Properties

Cure: 16h at 20-25°C + 14h at 180°C			EG-2107 / EH-2950-1
Appearance	visual		Black
Density	ISO 1183	g/cm³	ca. 1.7
Hardness Shore D	ISO 868		90-95
Deflection temperature, HDT	ISO 75	°C	180-190
Glass Transition Temperature, Tg	DSC	°C	180-190
Abrasion	Taber	mm³/100R	35-40

Processing

The processing and material temperature should be between 20-25 ºC.
Mix the two components thoroughly in the ratio indicated. Apply in thin layers with a brush.
Wait until gelcoat has gelled, but ensure that it is still slightly tacky before proceeding.
Degassing will improve mechanical properties.
The mechanical properties and temperature resistance are only obtained through the 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 180°C in steps and post cured for 14 hours at 180°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 EG-2107	5 kg
RAKU® TOOL EH-2950-1	6 x 1 kg / 2 kg / 25 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.

RAMPF Tooling Solutions GmbH & Co. KG
Robert-Bosch-Str. 8-10 | D-72661 Grafenberg
T +49.71 23. 93 42-1600
F +49.71 23. 93 42-1666
E tooling.solutions@rampf-gruppe.de
www.rampf-gruppe.de