

## Modified Cyanate Ester Infusion System

Three component infusion system

### Key Properties

- Meets FST regulations
- Flows very well
- Unfilled, very low viscosity
- Very easy to process
- Temperature resistant

### Applications

- Resin infusion

### Processing Properties

			RI-5503	RH-5903	AC-9253
Color / appearance	visual		amber	clear	dark red
Mix ratio		pbw	81.30	16.26	2.44
Viscosity at 25°C	ASTM D-4287	mPa·s	500-1000	50-200	30-180

			RI-5503 / RH-5903 / AC-9253		
Initial viscosity at 25°C	ASTM D-4287	mPa·s	400-800		
Gel time at 60°C	ASTM D-2471	min	300-800		

### Cured / Mechanical Properties (approximate values)

Material needs special cure cycle please contact the representative for more information			RI-5503 / RH-5903 / AC-9253		
Color / appearance	visual		Dark amber		
Density	ASTM D-792	g/cm <sup>3</sup>	ca. 1.2		
Glass Transition Temperature, T <sub>g</sub>	ASTM D-3418	°C	145-155		

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### Processing

#### Decrystallization Procedure:

Should RAKU<sup>®</sup> FST RI-5503 crystallize, place in an oven with a thermocouple/thermometer in the resin, warm in an oven until the resin reaches 60°C - 70°C and mix to help melt the crystals and homogenize. Ensure that the mixture is completely dissolved and cooled to room temperature before continuing.

#### Mixing Procedure:

Degas individual components and mixtures.

Combine RH-5903 and AC-9253. AC-9253 needs to be mixed well before use as some ingredients might be prone to sedimentation. Cool down RI-5503 to room temperature before adding it to the mixture. Do not add warm RI-5503 to the mix!

**The processing temperature should be between 20-30°C.**

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### Packaging

RAKU <sup>®</sup> FST RI-5503	10.00 kg
RAKU <sup>®</sup> FST RH-5903	1.10 kg
RAKU <sup>®</sup> FST AC-9253	0.32 kg

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### Storage

Original containers should be kept tightly sealed and stored at ambient temperatures 59-86°F (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.

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### 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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