RAKU[®] FST RI-5503-1 / RH-5903 / AC-9253



Modified Cyanate Ester Infusion System

Three component infusion system

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Key Properties

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

Processing Properties

			RI-5503-1	RH-5903	AC-9253
Color / appearance	visual		amber	clear	dark red
Mix ratio		pbw	100	20	3.4
Viscosity at 25°C	ASTM D-4287	mPa⋅s	400-1000	50-200	30-180

			RI-5503-1 / RH-5903 / AC-9253
Initial viscosity at 25°C	ASTM D-4287	mPa⋅s	200-700
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-5503-1 / RH-5903 / AC-9253	
Color / appearance	visual		Dark amber
Density	ASTM D-792	g/cm ³	ca. 1.2
Glass Transition Temperature, Tg	ASTM D-3418	°C	145-155

Applications

Resin infusion

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Processing

Decrystallization Procedure:

Should RAKU® FST RI-5503-1 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-5503-1 to room temperature before adding it to the mixture. Do not add warm RI-5503-1 to the mix!

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

Packaging	_	
RAKU [®] FST RI-5503-1	10.00 kg	
RAKU [®] FST RH-5903	1.10 kg	
RAKU [®] FST AC-9253	0.32 kg	

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.

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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Our recommendations on the use of the material are based on many years of experience and current scientific and practical knowledge. They are, however, provided without any obligation on our part and do not relieve the buyer of the need for suitability tests. They do not constitute a legal relationship, nor are any protected third party rights whatsoever affected thereby.

