

Modified Cyanate Ester Infusion System

Three component infusion system

Key Properties

- Meets FST regulations
- Flows well
- Unfilled, low viscosity
- Good wetting properties
- Temperature resistant

Applications

- Resin infusion

Processing Properties

			RI-5500	RH-5900	AC-9250
Color / appearance	visual		amber	clear	dark red
Mix ratio		pbw	86.83	10.39	2.78
Viscosity at 40°C	ASTM D-4287	mPa·s	500-1000	20-150	45-85

			RI-5500 / RH-5900 / AC-9250		
Initial viscosity at 40°C	ASTM D-4287	mPa·s	400-700		
Gel time at 60°C	ASTM D-2471	min	420-800		

Cured / Mechanical Properties (approximate values)

Material needs special cure cycle please contact the representative for more information			RI-5500 / RH-5900 / AC-9250		
Color / appearance	visual		Dark amber		
Density	ASTM D-792	g/cm ³	1.20-1.25		
Glass Transition Temperature, Tg	ASTM D-3418	°C	135-145		

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Decrystallization Procedure:

Should RAKU® FST RI-5500 crystallize, place in an oven with a thermocouple/thermometer in the resin, warm in an oven until the resin reaches 80°C - 90°C and mix to help melt the crystals and homogenize. Ensure that the mixture is completely dissolved before continuing.

Mixing Procedure:

Degas individual components and mixtures.

Combine RI-5500 and RH-5900 before adding AC-9250! To minimize chance of crystallizing during mixing, warm both parts (RI-5500 and RH-5900) similar to the melting procedure and combine. Allow the mix to cool below 50°C before adding AC-9250. AC-9250 needs to be mixed well before use as some ingredients might be prone to sedimentation.

The processing temperature should be between 40-50°C.

Packaging

RAKU® FST RI-5500	10.00 kg
RAKU® FST RH-5900	1.10 kg
RAKU® FST AC-9250	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.
