## RAKU<sup>®</sup> TOOL RC-0900



# Rapid Cast / Rigid / High HDT

Rigid ABS simulated polyurethane system

m temperature meter-mix s and short mold cycle times

			Resin (Isocyanate)	Hardener (Polyol)
Mix rotio		pbw	100	90
Mix ratio	atio pbv	pbv	100	100
Density	ASTM D-792	g/cm <sup>3</sup>	ca. 1.20	ca. 1.08
Viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 100	ca. 850

			Mixture
Mix viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 425
Gel time at 77°F (25°C)		sec	70-90
Demold time at 77°F (25°C)		min	10-15

### **Cured / Mechanical Properties (approximate values)**

Cure 1: 7 days at 77°F Cure 2: 16 h at 77°F + 4 h at 176°F + 2 h at 248°F			Cure 1	Cure 2
Aspect	visual		Amber	Amber
Density	ASTM D-792	g/cm <sup>3</sup>	1.12	1.12
Shore hardness D	ASTM D-2240		80-90	80-90
Deflection temperature, HDT (66psi)	ASTM D-648	°F (°C)	194 (88)	175 (79)
Tensile strength	ASTM D-638	psi	8,000	9,000
Elongation at Break	ASTM D-695	%	3	4
Compressive strength	ASTM D-638	psi	11,000	12,000
Compressive modulus	ASTM D-638	psi	690,000	620,000
Flexural strength	ASTM D-790	psi	14,000	14,500
Flexural modulus	ASTM D-790	psi	350,000	375,000
Notched Izod	ASTM D-256	ft·lbf/in	0.8	0.8
Linear shrinkage	ASTM D-2566	in/in	0.001-0.005	0.001-0.005

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#### Rapid Cast / High Heat Resistance / Black

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#### Processing

The processing and material temperature should be between 68-77°F (20-25°C). RC-0900 can be used at room temperature. Meter-mix equipment is recommended due to the short working life of the formulation.

#### Agitate the hardener and resin before use to ensure that the formula is homogeneous.

Packaging		
RC-0900 Quart Kit	3.8 lbs.	
RC-0900 1 Gal. Kit	15.2 lbs.	
RC-0900 Gal. Kit	76 lbs.	
RC-0900 Drum Kit	855 lbs.	

#### 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.

RAMPF Group, Inc. 49037 Wixom Tech Drive Wixom, MI 48393 T +1 248. 295.0223 F +1 248. 295.0224 E info.us@rampf-group.com **WWW.rampf-group.com**  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.