RAKU[®] TOOL RC-0900



Rapid Cast / Rigid / High HDT

Rigid ABS simulated polyurethane system

| m temperature meter-mix s and short mold cycle times |
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| | | | Resin (Isocyanate) | Hardener (Polyol) |
|--------------------------|-------------|-------------------|--------------------|-------------------|
| Mix rotio | | pbw | 100 | 90 |
| Mix ratio | atio pbv | pbv | 100 | 100 |
| Density | ASTM D-792 | g/cm ³ | 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 ³ | 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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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.