RAKU[®] TOOL VA-1705



70A / Black / Excellent Green Strength

70 shore A polyurethane elastomer

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Key Properties

• Excellent physical properties after RT cure

Applications

 For hand-batch processing, vacuum assisted processing or meter mix dispensed

- Free of mercury, MOCA or TDI
- Excellent green strength for quick demold times

Processing Properties

			Resin (Isocyanate)	Hardener (Polyol)
N dive media		pbw	70	100
Mix ratio		pbv	63	100
Density	ASTM D-792	g/cm ³	ca. 1.21	ca. 1.14
Viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 4,500	ca. 475

			Mixture
Mix viscosity at 77°F (25°C)	ASTM D-2393	cP	ca. 1,100
Gel time at 77°F (25°C)		min	4-6
Demold time at 77°F (25°C)		min	30-60

Cured / Mechanical Properties (approximate values)

Cure 1: 24 hours at 77°F + 1 hour at 150°F Cure 2: 7 days at 77°F		Cure 1	Cure 2	
Aspect	visual		Black	Black
Density	ASTM D-792	g/cm ³	1.12	1.12
Shore hardness A	ASTM D-2240		65-75	65-75
Tensile strength	ASTM D-638	psi	620	635
Elongation at Break	ASTM D-638	%	90	100
Tear strength	ASTM D-624	pli	60	60
Linear shrinkage	ASTM D-2566	in/in	0.002-0.005	0.002-0.005

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Processing

The processing and material temperature should be between 68-77°F (20-25°C). For best results, place the poured tool into a pressure vessel and pressurize to 60 psi until cured. Pigment has been added to the hardener side and will settle out of solution. Agitate Hardener and Resin before mixing to ensure a homogenous formulation.

Packaging

VA-1705 Quart Kit	3.4 lbs.	
VA-1705 1 Gal. Kit	13.6 lbs.	
VA-1705 5 Gal. Kit	68 lbs.	
VA-1705 Drum Kit	765 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.