RAKU[®] TOOL RapidVac[™] VA-1258



Flame Retardant / Rigid

Rigid polyurethane

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Key Properties

- Excellent physical properties
- Free of mercury, MOCA or TDI
- UL94 V-0 certified

Applications

For hand-batch or vacuum assisted casting methods

Processing Properties

			Resin (Isocyanate)	Hardener (Polyol)
Mix ratio		pbw	100	50
		pbv	100	60
Density	ASTM D-792	g/cm ³	ca. 1.45	ca. 1.20
Viscosity at 100°F (38°C)	ASTM D-2393	cР	ca. 600	ca. 550

			Mixture
Mix viscosity at 100°F (38°C)	ASTM D-2393	cР	ca. 1,000
Gel time at 77°F (25°C)		min	1:30-2:30
Demold time at 77°F (25°C)		min	15-45

Cured / Mechanical Properties (approximate values)

Cure 1: 24 hours at 77°F + 16 hours at 180°F Cure 2: 7 days at 77°F			Cure 1	Cure 2
Aspect	visual		White	White
Density	ASTM D-792	g/cm ³	1.34	1.34
Shore hardness D	ASTM D-2240		80-90	80-90
Deflection temperature, HDT (66psi)	ASTM D-648	°F (°C)	194 (90)	173 (78)
Tensile strength	ASTM D-638	psi	7,000	7,000
Elongation at Break	ASTM D-638	%	11	8
Flexural strength	ASTM D-790	psi	13,000	13,000
Flexural modulus	ASTM D-790	psi	330,000	360,000
Notched Izod	ASTM D-256	ft-lbf/in	0.8	0.9

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Processing

The processing and material temperature should be between 68-77°F (20-25°C).

Demold times are achieved by post curing for 1 hour at 150°F.

Pre-heat tools to 150 °F for improved demold time and enhanced physical properties. For best results, de-air the material prior to casting, then pressurize to 60 psi until cured. If pigment has been added to the hardener component, it will settle during storage.

Agitate Hardener and Resin before mixing to ensure a homogenous formulation.

Packaging		
VA-1258 Quart Kit	3 lbs.	
VA-1258 1 Gal. Kit	12 lbs.	
VA-1258 5 Gal. Kit	60 lbs.	
VA-1258 Drum Kit	675 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 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.