## RAKU<sup>®</sup> TOOL IE-3171



# 70D Polyether

### Rigid polyurethane

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#### **Key Properties**

- Excellent physical properties after RT cure
- Free of mercury, MOCA or TDI

#### **Applications**

• For room temperature hand-batch processing

<b>Processing Properties</b>	<b>Process</b>	sing	Prop	erties
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			Resin (Isocyanate)	Hardener (Polyol)
N disconnice		pbw	100	50
Mix ratio		pbv	100	52
Density	ASTM D-792	g/cm <sup>3</sup>	ca. 1.10	ca. 1.06
Viscosity at 77°F (25°C)	ASTM D-2393	сР	ca. 45	ca. 800

			Mixture
Mix viscosity at 77°F (25°C)	ASTM D-2393	cР	ca. 200
Gel time at 77°F (25°C)		min	5-9
Demold time at 77°F (25°C)		h	2-4

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

Cure: 7 days at 77°F			Cure
Aspect	visual		White
Density	ASTM D-792	g/cm <sup>3</sup>	1.10
Shore hardness D	ASTM D-2240		65-75
Deflection temperature, HDT (66psi)	ASTM D-648	°F (°C)	140 (60)
Tensile strength	ASTM D-638	psi	5,500
Elongation at break	ASTM D-638	%	8
Flexural strength	ASTM D-790	psi	9,000
Flexural modulus	ASTM D-790	psi	250,000
Notched Izod	ASTM D-256	ft-lbf/in	0.5
Linear shrinkage	ASTM D-2566	in/in	0.001-0.005

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#### **Processing**

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

This system has been designed to ease the release of mixed air without degassing or pressure. However, for best results, de-air the material prior to casting, then pressurize to 60 psi.

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

Packaging		
IE-3171 Quart Kit	3 lbs.	
IE-3171 1 Gal. Kit	12 lbs.	
IE-3171 5 Gal. Kit	60 lbs.	
IE-3171 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.