RAKU-TOOL® RS-9140



02/02/22

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Platinum Silicone

40A Platinum Silicone

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Applications

•Room temperature hand batch processing

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- Hobby and arts projects
- Rapid prototyping rollers
- Mold making

Key Properties

- •High Strength
- •Medium Durometer
- •Minimal Shrinkage
- •Easy 10:1 Mix

Processing Properties

				Silicone	Activator
Aspect		visual		White	Green
Mix Ratio			pbw	100	10
			pbv	100	13
Density		ASTM D-792	g/cm ³	1.35	1.00
Viscosity at	25°C (77°F)	ASTM D-2393	сР	44,500	3,000

				Mixture
Mix Viscosity at	25°C (77°F)	ASTM D-2393	сР	25,000
Working Life			min	60-90
Demold Time at	25°C (77°F)		hour	16-24

Cured / Mechanical Properties

Cure: 7 days @ 77°F (25°C)	Cure		
Aspect	visual		Green
Density	ASTM D-792	g/cm ³	1.10
Cubic Inches per Pound		in ³ /lb	30.45
Shore A Hardness	ASTM D-2240		35-45
Tensile Strength	ASTM D-638	psi	1,000
Elongation at Break	ASTM D-638	%	460
Linear Shrinkage	ASTM D-2566	in./in.	0.0001
Tear Strength	ASTM D-624	pli	140

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Processing

The processing and material temperature should be between 68-77°F (20-25°C). Because pigments can settle during storage, the activator should be thouroughly stored before mixing. Air entrapped during mixing should be removed before poured to prevent voids in the cured product. Deair the mixed material under a vacuum of 25mm (29in) of Hg. The mixture will froth and expand 4x its volume, crest, and receed to its original volume as the bubbles break. Degassing is usually complete about 2 minutes after frothing subsides.

Packaging			
Quart Kit	2.2	lbs.	1.0 kg
1 Gal. Kit	8.8	lbs.	4.0 kg
5 Gal. Kit	44.0	lbs.	20.0 kg
Drum Kit	440	lbs.	199.6 kg

Storage

Original containers should be kept tightly sealed and stored at ambient temperatures 59-86°F (15-30°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 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 the be observed. Please take heed of the appropriate safety data sheets.

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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 affecter thereby.