SILPAK RU-280 A/B

Semi-Flexible Urethane Elastomer

RU-280 A/B—80 A Shore is a two-component, ***semi-flexible*** urethane elastomer that is easy to process. Cured parts exhibit high compression strength, tensile and tear properties.

Features

- Easy to process
- Stainable with oil or water-based paints/stains
- Fast demold

Applications

Any application where rapid cure, high resiliency, firm rubber part is required. Parts can be easily stained with either oil or water-based paints:

- Automotive brushings
- Coating
- Tooling
- Prototype parts
- Special FX
- Architectural flexible moldings

Properties – Components (Typical Values)

Property	Component A	Component B ***Needs to be pre-mixed*
Viscosity, cps	300	1250
Mix ratio, by weight	25	100
Mix ratio, by volume	18	82
Color	Brown	Off-white

Physical Properties – Cured Material (Typical Values)

Property	Test Method	Results
Shore A Hardness	ASTM D-2240	80
Tensile Strength, psi	ASTM D-412	750
Elongation %	ASTM D-412	150
Tear Resistance, pli	Die C	140
Specific Gravity		1.32
Coverage		20.85 in^3/lb
Gel Time		7 minutes
Demold Time		25-45 minutes

**Determined by part's thickness; thinner parts will take longer to demold*

Mixing and Curing

Measure out proper amounts of components, 1 part A to every 4 parts B, ensuring ***B component has been pre-mixed*** prior to blending components together. Once blended, pour into silicone RTV mold and allow part to cure, 25-45 minutes, depending on thickness of part, temperature of materials and mold. If part is highly detailed, work material into the mold surface for best results. Parts can be easily stained with oil or water based paints. **Material will release from Silicone RTV mold surface, but release agent is suggested to pro-long mold life. The technique of applying **ER 2300** spray mold release onto mold followed by a light dusting of mold with talc or like powder will help improve overall mold life.

Note: Inconsistent cures – soft or sticky parts – is a direct result of not properly pre-mixing B component.

Storage and Shelf Life

RU 280 A/B is sensitive to cooler weather under 75°F and can begin crystallizing and solidifying. If material becomes lumpy and grainy due to cold weather, reheating material to 125° to 150°F will bring material back to original viscosity. Electric drum or pail heater will need to be used to avoid material problems. Call Technical support for further information.

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