

IsoCast URN 3102

IsoCast URN 3102 is a very soft, two-component polyurethane gel elastomer that can be used for a variety of end products in the: art, hobbyist, pattern, taxidermy, sculpture and industrial worlds.

APPLICATIONS

- Point of Purchase Displays
- Shoe Sole Gel Pads
- Stress Relief Balls

PRODUCT ADVANTAGES

- California Proposition 65
- Free of solvents

*Values given are not intended to be used in specific preparation

Component Properties

Color - ISO colorless

Color - POL colorless

Viscosity - ASTM D-2196 - 74°F, ISO 500 cps

Viscosity - ASTM D-2196 - 74°F, POL 225 cps

Weight per gallon - ISO 8.6

Weight per gallon - POL 8.3

Reactivity Profile

Ratio by Weight - ISO:POL 28:72

Ratio by Volume - ISO:POL 1:3

Pot Life - 100g 1 - Minute

Gel Time - 100 gram sample, 74°F 2.5 - 3.17
Minutes

Gel Time - 100 gram sample, 100°F 1.53 - 2.03
Minutes

Demold Time 16 - 24 Hours

Full Cure 7 Days

Typical Physical Properties

Hardness - ASTM D2240 - Shore OO 42 Shore OO

Tear Strength - ASTM D624, Die C 15 pli

Tensile Modulus - ASTM D412 20 psi

Tensile Modulus - ASTM D412 - 100% 30 psi

Tensile Modulus - ASTM D412 - 200% 40 psi

Tensile Modulus - ASTM D412 - 300% 50 psi

Tensile Strength - ASTM D412 80 psi

Elongation - ASTM D412 600 %

RECOMMENDED HANDLING INSTRUCTIONS

Isotec® International's Recommended Application and Handling Instructions

- Use only in well-ventilated areas.
- Wear chemically resistant rubber gloves, safety glasses, and an apron.
- Avoid prolonged or repeated contact with skin.
- In case of skin contact, wipe affected area with isopropyl alcohol, followed by soap and water.
- In case of eye contact, flush eyes with water for 15 minutes and consult a physician.
- If swallowed or comes into contact with eyes, seek medical attention immediately.

To achieve the best results:

- Remove any air bubbles entrained in the resin or mixture with a vacuum.
- Thoroughly scrape the sides and bottoms of all mixing containers.
- Accurately measure the materials at the correct ratio.

-Always mix/roll POL side prior to use to ensure a homogenous product.

IsoCast URN 3102 can either be mixed by hand or by machine.

STORAGE

Protect ISO and POL side from moisture. If the ISO side material is exposed to moisture, including moisture from the air, it will release CO₂ gas. If placed in a sealed container, this gas can cause a dangerous buildup of pressure potentially resulting in injury or death. If the POL side is exposed to excess moisture and then applied it may cause weak or foamed material to be applied.

SAFETY

-Refer to the product SDS for all relevant safety information.

Date Modified 9/27/2018

Since Seller exercises no control over Buyers application or use of the product manufactured by Seller ("product") and since materials used with the product may vary, it is understood that:

- THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES OR MERCHANTABILITY OR FOR ANY PARTICULAR PURPOSE. While all data presented in Seller's technical data sheet is based on the best information available to Seller and believed correct, such data is not to be construed as a warranty that the product will conform to such specifications. Such technical data sheets are subject to change without notice. Reported laboratory test results of fire redundancy in no way relates to the actual performance under fire conditions. Since all urethane systems are organic, they will burn.
- Reported laboratory test results of the color stability in no way relates to the actual performance upon exposure to light sources. Since all aromatic urethanes experience color degradation upon ultraviolet light exposure, Seller shall not be liable for any damages resulting from ultraviolet light color degradation of any aromatic urethane systems manufactured or sold by Seller.
- The liability of the Seller shall not exceed the purchase price and the Buyer shall not be entitled to nor the Seller be liable for any consequential, incidental, indirect or special damages resulting in any manner from the furnishing of the product.

www.isotecintl.com

"The Chemistry Behind Performance"®

(800) 234-6300
