

IsoMold URP 4106

IsoMold URP 4106 is an all-purpose polyurethane system used to make molds of detailed masters that contain shallow undercuts. Some of the most common uses of IsoMold URP 4106 are to make molds for point-of-purchase displays, rapid prototypes, special effects, taxidermy, and sculpture reproductions. IsoMold URP 4106 is a two-part polyurethane molding system. IsoMold URP 4106 is mixed one-to-one by volume and cures at room temperature. IsoMold URP 4106 cures to a medium hardness (Shore A33 ± 2), blue rubber.

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

Component Properties

Color - POL	Blue
Specific Gravity - 74°F, POL	1.21
Viscosity - ASTM D-2196 - 74°F, POL	700 cps

Reactivity Profile

Ratio by Volume - ISO:POL	1:1
Mix Time - by Hand	1 - 2 Minutes
Pot Life - 100g	15 Minutes
Gel Time - 100 gram sample, 74°F	18 Minutes
Demold Time	24 Hours
Cure Time	24 Hours
Reversion Temperature	270 °F

Typical Physical Properties

Hardness - ASTM D2240 - Shore A	31 - 35 Shore A
Tear Strength - ASTM D624, Die C	72 pli
Tensile Modulus - ASTM D412	278 psi
Tensile Strength - ASTM D412	300 psi
Elongation - ASTM D412	300 %

RECOMMENDED HANDLING INSTRUCTIONS

Keep the IsoMold URP 4106 container tightly closed when not in use and store at temperatures between 60–90° F (16–32° C). Do not expose the curative or prepolymer to moisture! If moisture contaminates IsoMold URP 4106, it will not cure. If these storage requirements are met, IsoMold URP 4106 carries a shelf life warranty of six months. Be sure to read the Material Safety Data Sheet that comes with IsoMold URP 4106. When working with IsoMold URP 4106, please observe the following safety precautions. Use only in well-ventilated areas. Wear safety glasses, chemical-resistant rubber or plastic gloves, and an apron. Avoid prolonged or repeated contact with skin. In the case of skin contact, wipe affected area with isopropyl alcohol, followed by soap and water. In the case of eye contact, flush eyes with water for 15 minutes and consult a physician. If swallowed, drink one to two glasses of water and seek medical attention immediately.

STORAGE

SAFETY

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

Date Modified

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 MECHANABILITY 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.

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