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# TASK® 15

## Roto Casting, Impact Resistant Performance Resin



www.smooth-on.com

### PRODUCT OVERVIEW

TASK® 15 is a premium performance urethane resin that exhibits exceptional impact strength when cast in thin-wall sections. TASK® 15 features a gradual cure profile, making it ideal for rotational casting applications. Pot life is 6 minutes and handling time 60 minutes at room temperature. Vibrant colors are possible by adding small amounts of SO-Strong® tint or IGNITE® fluorescent colors. Plastic fully cures with negligible shrinkage and can be machined, sanded and/or painted.

### TECHNICAL OVERVIEW

Mix Ratio; 75A:100B by weight	
Mixed Viscosity (cps); 600	(ASTM D-2393)
Specific Gravity, g/cc; 1.12	(ASTM D-1475)
Specific Volume, cu. in. /lb.; 24.7	(ASTM D-1475)
Pot Life; 6 minutes @ 73°F/23°C	(ASTM D-2471)
Cure time; 1 hour @ 73°F/23°C **	
Color; Opaque White	
Shore D Hardness; 75	(ASTM D-2240)
Ultimate Tensile, psi; 2,720	(ASTM D-638*)
Tensile Modulus; 126,000 psi	(ASTM D-638*)
Elongation @ Break; 20 %	(ASTM D-638*)
Flexural Strength; 5,620 psi	(ASTM D-790*)
Flexural Modulus; 170,000 psi	(ASTM D-790*)
Compressive Strength; 5,450 psi	(ASTM D-695*)
Heat Deflection Temp; 117°F/47°C	(ASTM D-648*)
Compressive Modulus; 60,000 psi	(ASTM D-695*)
Shrinkage; 0.0042 in/in	(ASTM D-2566*)

\* Value measured after 7 days at 73°F/23°

\*\* Depending on Mass

### PROCESSING RECOMMENDATIONS

#### Preparation ...

Materials should be stored and used in a warm environment (73°F/23°C). These products have a limited shelf life and should be used as soon as possible. All liquid urethanes are moisture sensitive and will absorb atmospheric moisture. Mixing tools and containers should be clean and made of metal, glass or plastic. Mixing should be done in a well-ventilated area. Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk. Because no two applications are quite the same, a small test application to determine suitability for your project is recommended if performance of this material is in question.

#### Mixing ...

Shake or stir both Part A & Part B before using. After dispensing required amounts of Parts A and B into mixing container, mix thoroughly. Stir deliberately making sure that you scrape the sides and bottom of the mixing container several times. Be careful not to splash low viscosity material out of the container.

#### Vacuum Degassing ...

TASK® 15 is low in viscosity and does not require vacuum degassing. If you choose to vacuum the material, subject mixture to 29 h.i.g. mercury in a vacuum chamber until mixture rises, breaks and falls. Allow for 3 to 4 times volume expansion in mixing container. Be aware of pot life so that material does not set up in mixing container.

**IMPORTANT:** Shelf life of product is reduced after opening. Remaining product should be used as soon as possible. Immediately replacing the lids on both containers after dispensing product will help prolong the shelf life of the unused product. XTEND-IT® Dry Gas Blanket (available from Smooth-On) will significantly prolong the shelf life of unused liquid product.

## Safety First!

The material safety data sheet (MSDS) for this or any Smooth-On product should be read before using and is available on request. All Smooth-On products are safe to use if directions are read and followed carefully.

**Be Careful. Part A (Yellow Label)** is a modified aliphatic diisocyanate. Vapors, which can be significant if heated or sprayed, cause lung damage and sensitization. Use only with adequate ventilation. Contact with skin and eyes may cause severe irritation. Flush eyes with water for 15 minutes and seek immediate medical attention. Remove from skin with waterless hand cleaner followed by soap and water. Refer to MSDS.

**Part B (Blue Label)** is irritating to the eyes and skin. Avoid prolonged or repeated skin contact. If contaminated, flush eyes with water for 15 minutes and get immediate medical attention. Remove from skin with soap and water. When mixing with Part A, follow precautions for handling isocyanates.

**IMPORTANT** - The information contained in this bulletin is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained from the use thereof, or that any such use will not infringe a copyright or patent. User shall determine suitability of the product for the intended application and assume all associated risks and liability.

## Casting • Demold • Performance

### Pouring ...

**Warning:** Fumes, which may be visible as this product starts to "gel" and cure, will dissipate with adequate ventilation. Only use this product with room size ventilation and do not inhale/breathe fumes. Castings will be extremely hot immediately following cure and may burn the skin. Let cool to room temperature before handling. For best results, pour your mixture in a single spot at the lowest point of the mold and let the mixture seek its level. This will help minimize air entrapment. Casting thickness should not exceed ½" (1.27 cm).

### Curing ...

**TASK® 15** can be handled in 1 hour depending on mass and mold configuration. Castings will reach "full cure" faster and achieve maximum physical properties and higher heat resistance if **TASK® 15** is post cured. After casting has cured at room temperature for 1 hour, subject casting to 150°F / 65°C for 4 hours. Let cool to room temperature before handling.

### Performance ...

Cured castings are rigid and durable. They resist moisture, moderate heat, solvents, dilute acids and can be machined, primed/painted or bonded to other surfaces (any release agent must be removed). If machining cured **TASK® 15** plastic, wear dust mask or other apparatus to prevent inhalation of residual particles. Castings can be displayed outdoors after priming and painting. Because no two applications are quite the same, a small test application to determine suitability is recommended if performance of this material is in question.



Call Us Anytime With Questions About Your Application.

Toll-free: (800) 762-0744

Fax: (610) 252-6200

The new [www.smooth-on.com](http://www.smooth-on.com) is loaded with information about mold making, casting and more.

BOARDMAN MOLDED PRODUCTS, INC.  
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NUM904A010	3/8" A THRU Z, WHITE	0	20.000	20.000	0.000
SO 00013303 002	25270				
MIN010H000	<225.00 MINI HANDLING CHARGE	0	1.000	1.000	0.000
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