

**Advanced Materials****RenCast<sup>®</sup> 6496 / Ren<sup>®</sup> 6496 System****RIGID POLYURETHANE SYSTEM**

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**DESCRIPTION :**

RenCast<sup>®</sup> 6496 (Resin) / Ren<sup>®</sup> 6496 (Hardener), a non-mercury, thermoplastic-like, rigid polyurethane system. This product is a new development in the family of RenCast<sup>®</sup> fast polyurethanes, having been specifically formulated with the desirable combination of long work time (gel time) and short demolding time. RenCast<sup>®</sup> 6496 is designed to closely simulate thermoplastics such as TPO and PE.

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**APPLICATIONS :**

- Handcasting
- Vacuum Casting
- Pressure Pot Casting

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**ADVANTAGES :**

- Contains no mercury catalyst
- Convenient mix ratio
- Can be used in a broad range of processes
- Neutral color makes this system easily pigmentable

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**MIXING INSTRUCTIONS :**

Reaction Ratio            100R to 100H by weight  
                                  89R to 100H by volume

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**TYPICAL MIXED PROPERTIES :**

Color	White
Reaction Ratio, by weight	100R / 100H
Gel Time 150 gm mass	5 – 5 min
Demold Time	2 - 4 hours @ RT 1 - 2 hrs @ 140 °F

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**TYPICAL CURED PROPERTIES :**

Color	White
Hardness, Shore D	68
Density, g/cm <sup>3</sup>	1.1
Tensile Strength, psi	4,000
% Tensile Elongation @ Break	84
Flex modulus, psi	111,000
Izod impact, ft-lb/in notch	0.8
HDT @ 66 psi, °F (°C)	140 (60)
Tear Strength, ppi	430

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**HANDLING :**

This product is moisture-sensitive and packaged under a blanket of dry nitrogen. Maintain factory seal. After use reblanket with nitrogen and tightly reseal. This product may crystallize upon storage. If crystallized, vent container and heat to 125 ° - 145 °F until crystals dissolve. Stir well after product has liquefied. If heating of products in plastic packaging is necessary, heat in a ventilated oven to 145 °F maximum. Before heating loosen the container lid slightly to relieve any pressure buildup and place container to be heated into a metal bucket of sufficient volume to contain the product, should the container tip over or leak. Work in a well ventilated area and use clean, dry tools for mixing and applying.

Combine the resin and hardener according to mix ration. Mix together thoroughly and use immediately after mixing. Material temperature should not be below 65 °F (18 °C) when mixing.

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**PACKAGING :**

This product is available in the following package sizes :

Preweghed gallon kit (14# total) contains 7# of resin base and 7# of hardener catalyst  
And 5-gallon pails containing 38# of resin base and 38# of hardener catalyst

Please call Customer Service (800) 367 8793 for price and availability.

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**STORAGE :**

RenCast<sup>®</sup> 6496 (Resin) / Ren<sup>®</sup> 6496 (Hardener) should be stored in a dry place, in the sealed original container, at temperatures between +2°C and +40°C (+35.6°F and 104°F). Under these storage conditions, the shelf life is 1 year. The product should not be exposed to direct sunlight.

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**PRECAUTIONARY STATEMENT :**

Huntsman Advanced Materials Americas LLC maintains up-to-date Material Safety Data Sheets (MSDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

**First Aid!**

Refer to MSDS as mentioned above.

**KEEP OUT OF REACH OF CHILDREN****FOR PROFESSIONAL AND INDUSTRIAL USE ONLY**

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