

## Typical Properties of Replica Wood's Polyurethane

<b>Specific Gravity (20'c)</b>	Resin	<b>1.06 g/cm3</b>
	Isocyanate	<b>1.24 g/cm3</b>
<b>Viscosity (25'c)</b>	Resin	<b>720 cP</b>
	Isocyanate	<b>240 cP</b>
<b>Free Rise Density</b>		<b>145 kg/m3</b>
<b>Moulded Density (overall)</b>		<b>200-250 kg/m3 (average shrinkage, 1%)</b>
<b>Compressive Strength Parallel to rise</b>		<b>1.5 MPa</b>
<b>Tensile Strength Parallel to rise</b>		<b>1.0MPa</b>
<b>Ozone Depletion Potential</b>		<b>Zero</b>
<b>Global Warming Potential</b>		<b>0.32</b>
<b>Flash point</b>		<b>Not applicable</b>

## Health and Safety.

Fully reacted polyurethane polymer is chemically inert.

Polyurethane polymer is a combustible solid and can be ignited if exposed to an open flame. Decomposition from fire can produce mainly carbon monoxide, and trace nitrogen oxides and hydrogen cyanide.

### Firefighting Measures:

- Hazards arising from the Polyurethane burning:  
Burning produces irritating, toxic and obnoxious fumes
- Advice for firefighters:  
Wear Suitable self-contained breathing apparatus when necessary.  
Saturate the burning Polyurethane with water from a spray nozzle.

### First Aid Measures:

PERSONAL PRECAUTIONS: Wear suitable protective equipment (PPE - displayed below) when working with Polyurethane Replica Wood.

- Ingestion  
Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. *Do not Induce Vomiting.*
- Inhaling  
To avoid potentially inhaling air bound particles on cutting/ fixing Replica Wood Polyurethane, wear suitable protective masks (FFP1 or better). Potential inhalation can cause irritation to respiratory system.
- Eye Contact  
To avoid potential contact with eyes, wear suitable eye Protection (Safety spectacles/goggles) when cutting/fixing Replica Wood. In case of Polyurethane particles coming in contact with eyes, rinse immediately with water for 15 minutes. Seek medical attention if irritation or symptoms persist.

### Other information:

- Disposal Considerations:

Dispose of in compliance with all local and national regulations.

- Transport information:

The product is not classified as dangerous for carriage.

### What you need to do.

You must reduce exposure to Polyurethane dust when cutting to as low as 'reasonably practicable'.

Provide dust extraction (also known as local exhaust ventilation or LEV) at cutting equipment/machines to capture and remove dust before it can spread.

Educate workers about the risks from Polyurethane dust and the control measures required using above information.

### What you need to know.

Many of the injuries in the construction industry are caused during manual handling activities. There is potential for injury present during:

- Handling of Replica Wood boards and other materials.
- Machining and assembly.
- Handling and storage of the finished product.
- Lifting and handling aids can significantly reduce the risk of injury

For any additional information or advice, please contact Replica Wood Ltd on:

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#### **DISCLAIMER**

The information provided in this Safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal. It is not to be considered a warranty or quality specification. Since conditions for use of the product are not under control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product.

#### **CERTIFICATE OF COMPLIANCE**

Replica Wood Ltd hereby certify that all Replica Wood products conform to national/international standards regarding chemical/physical composition.

Our planks, composite panels and fixing materials etc will be required to be handled in line with their associated safety data sheets that are available upon request or via our website

[www.replicawood.co.uk/technical-information](http://www.replicawood.co.uk/technical-information).

As the safety of our users is paramount, we will take all precautions to keep our safety data up-to-date and easy to access.

If our products are installed in line with our fitting guidelines, and industry recommended practises, we can assure that they will perform to satisfy their 15 year guarantee, which is also available on request or via our website [www.replicawood.co.uk/guarantee](http://www.replicawood.co.uk/guarantee).

Your legal rights are not compromised or affected.

#### **ENVIRONMENTAL POLICY**

As an environmental responsible company with potential world wide users/customers we pledge to do everything possible to protect both local and world wide environments.

In line with the guidance's of the active ISO standards, no products have hazardous elements and can be recycled. Materials/chemicals used in the manufacturing process are subject to our environmental friendly waste management procedures/systems.