



---

## Laminating Resin

### RenLam<sup>®</sup> LY 5210/ Ren<sup>®</sup> HY 5158

### Exceptional heat resistant epoxy system

---

#### Key properties

- Good wetting properties
- Long pot life
- Partial curing at room temperature completed with indicated post cure
- Exceptional heat resistance

---

#### Applications

- For heat- resistant tools with glass or carbon fibre fabrics
- Prepreg lay-up tools
- Parts and structures
- In combination with an appropriate gelcoat system to construct high temperature tools

---

#### Product data

Property	Unit	RenLam LY 5210	Ren HY 5158
Appearance Colour	visual	Clear liquid Brown	Clear liquid Pale yellow
Viscosity at 25°C	mPas	2,300-3,300	1,000-2,000
Density	g/cm <sup>3</sup>	1.2	1.01

---

#### Processing

Mix ratio	Parts by weight
RenLam LY 5210	100
Ren HY 5158	25

Mix the two components thoroughly in the ratio indicated, then impregnate each layer of cloth as it is laid up to construct the laminate.  
Post-curing will improve final properties.

---

## Properties

<b>Resin/Hardener mix:</b>	<b>Volume</b>	<b>Unit</b>	<b>LY 5210 HY 5158</b>
<b>Appearance</b>			Yellowish
<b>Viscosity at 25°C</b>		m Pa s	3,000
<b>Pot life at 25°C</b>	<b>500 ml</b>	min	150
<b>Demoulding time</b>		h	3-4 days RT /14 h 40°C

**After cure: 14h gradually up to 160°C**

<b>Density</b>	<b>ISO 1183</b>	g/cm <sup>3</sup>	1.1
<b>Deflection temperature</b>	<b>ISO 75</b>	°C	160-170

---

## Storage

Store LY 5210 at a temperature between 2 and 8°C, in its original container. Quantities of materials for immediate use (up to 5 days) can be held at room temperature without risk of deterioration.

Store HY 5158 in a closed container between 6 and 28°C.

---

## Working conditions

The product should be used when in the temperature range 18-25°C.

---

## Packaging

<b>System</b>	<b>LY 5210</b>	<b>HY 5158</b>
<b>Quantity and Weight</b>	1 x 25kg	1 x 6.25kg
<b>Quantity and Weight</b>	4 x 5kg	4 x 1.25kg

---

## Handling precautions

### Caution

Our products are generally quite harmless to handle provided that certain precautions normally taken when handling chemicals are observed. The uncured materials must not, for instance, be allowed to come into contact with foodstuffs or food utensils, and measures should be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The wearing of impervious rubber or plastic gloves will normally be necessary; likewise the use of eye protection. The skin should be thoroughly cleansed at the end of each working period by washing with soap and warm water. The use of solvents is to be avoided. Disposable paper - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. These precautions are described in greater detail in the Material Safety Data sheets for the individual products and should be referred to for fuller information.

---

## Huntsman Advanced Materials (UK) Limited

All recommendations for the use of our products, whether given by us in writing, verbally, or to be implied from the results of tests carried out by us, are based on the current state of our knowledge. Notwithstanding any such recommendations the Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended process or purpose. Since we cannot control the application, use or processing of the products, we cannot accept responsibility therefore. The Buyer shall ensure that the intended use of the products will not infringe any third party's intellectual property rights. We warrant that our products are free from defects in accordance with and subject to our general conditions of supply.

Duxford, Cambridge  
England CB2 4QA

Tel: +44 (0) 1223 493 000  
Fax: +44 (0) 1223 493 002

www.renshape.com

© 2004 Huntsman Advanced Materials (Switzerland) GmbH

® Ren, RenShape, RenPaste, RenGel, RenLam, RenCast, RenRelease, RenPIM and Parts In Minutes are registered trademarks of Huntsman LLC or an affiliate thereof in one or more, but not all, countries.