

**Advanced Materials****RenLam<sup>®</sup> LY 5210 / Ren<sup>®</sup> HY 5213**

LAMINATING RESIN  
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
- Pre-preg lay-up tools
- Parts and structures
- In combination with an appropriate gelcoat system to construct high temperature tools

**PRODUCT DATA**

Property	Unit	RenLam <sup>®</sup> LY 5210	Ren <sup>®</sup> HY 5213
Appearance Colour	Visual	Clear liquid Brown	Liquid Yellow to Brown
Viscosity at 25°C	mPas	2300-3300**	500-1000**
Density	g/cm <sup>3</sup>	1.2	0.95-1.05

*\*\* Specified data are on a regular basis analysed. Data which is described in this document as 'typical' is not analysed on a regular basis and is given for information purpose only. Data values are not guaranteed or warranted unless if specifically mentioned.*

**TYPICAL SYSTEM DATA****PROCESSING**

Mix ratio	Parts by weight
RenLam <sup>®</sup> LY 5210	100
Ren <sup>®</sup> HY 5213	32

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**

Resin/Hardener mix:	Volume	Unit	RenLam® LY 5210 Ren® HY 5213
Appearance			Amber
Viscosity at 25°C		m Pa s	1800
Pot life at 25°C	600g	h	3-3.5
Demoulding time		h	2-3 days RT /14 h 40°C

*After cure: 14h gradually up to 180°C*

Density	ISO 1183	g/cm <sup>3</sup>	1.1
Tg	DSC	°C	180

**STORAGE**

Provided that RenGel® SW 5210 and Ren® HY 5213 are stored in a dry place in their original, properly closed containers at the storage temperatures mentioned in the MSDS they will have the shelf lives indicated on the labels. Partly emptied containers should be closed immediately after use.

**WORKING  
CONDITIONS**

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

**PACKAGING**

System	RenLam® LY 5210	Ren® HY 5213
Quantity and Weight	1 x 25 kg	1 x 20 kg
Quantity and Weight	1 x 1000 kg	1 x 165 kg

**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.

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