

Advanced Materials**RenLam[®] LY 5210 / Ren[®] HY 5158**

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
- 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 ³	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

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

After cure: 14h gradually up to 160°C

Density	ISO 1183	g/cm ³	1.1
Deflection temperature	ISO 75	°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

System	LY 5210	HY 5158
Quantity and Weight	1 x 25kg	1 x 6.25kg
Quantity and Weight	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.

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