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Advanced Materials

RenLam© M-1 / Ren© HY 956

LAMINATING RESIN
LOW VISCOSITY UNFILLED EPOXY SYSTEM

KEY PROPERTIES

- **Low shrinkage and high dimensional stability**
- **High mechanical strength**
- **Highly compatible with glass fabrics and fillers**

APPLICATIONS

- Construction of jigs, foundry patterns and tooling aids

PRODUCT DATA

Property	Unit	RenLam© M-1	Ren© HY 956
Appearance Colour	**visual**	Liquid Pale yellow	Liquid Clear, pale yellow
Viscosity at 25ºC	**mPas**	1250 – 1600	370 - 470
Density	**g/cm^3**	1.1	1.0

PROCESSING

Mix ratio	Parts by weight
RenLam© M-1	100
Ren© HY 956	20

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.

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PROPERTIES

Resin/Hardener mix:	Volume	Unit	M–1 HY 956
Appearance			Liquid Pale yellow
Viscosity at 25ºC		mPa s	1200
Pot life at 25ºC	**500 ml**	min	30
Demoulding time		h	24

After cure: 7 days at RT or 14 hours at 40 °C

Density	**ISO 1183**	g/cm^3	1.1
Deflection temperature	**ISO 75**	°C	50

STORAGE

The resin and hardeners described in this instruction sheet have the shelf lives shown provided they are stored at 6 - 28oC in a dry place and sealed containers, preferably those in which they are supplied.

WORKING CONDITIONS

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

PACKAGING

System	M-1	HY 956
Quantity and Weight	4 x 5kg	6 x 1kg
Quantity and Weight	1 x 25kg	4 x 5kg
Quantity and Weight	1 x 225kg	1 x 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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