

**Advanced Materials****RenLam<sup>®</sup> 1700-1 Resin / Ren<sup>®</sup> 956 Hardener****UNFILLED ROOM TEMPERATURE LAMINATING SYSTEM****DESCRIPTION:**

RenLam<sup>®</sup> 1700-1(Resin) / Ren<sup>®</sup> 956(Hardener) system is an unfilled, room temperature curing, two component epoxy laminating system. Its low viscosity permits easy handling and excellent fiberglass wet-out plus minimum run-off on vertical surfaces.

**TYPICAL PHYSICAL PROPERTIES:**

Reaction Ratio (R/H) or 100R/23H  
100/23 by weight  
100/25 by volume

Property	ASTM Test Method	Test Values
Gel Time: 4 fl. oz. (min)		36
Mixed viscosity (cp)	D-2393	1350
Shore "D" Hardness	D-2240	89
Ultimate Compressive Strength (psi)	D-695	24,700
Ultimate Flexural Strength (psi)	D-790	40,700
Flexural Modulus (psi)	D-790	1.73 x 10 <sup>6</sup>
Ultimate Tensile Strength (psi)	D-638	34,900
Deflection Temperature (°F) @ 264 psi (cast)	D-648	128
Thermal Coefficient of Expansion (in/in/°F)	D-648	0.97 x 10 <sup>-5</sup>

**STORAGE :**

RenLam<sup>®</sup> 1700-1(Resin) / Ren<sup>®</sup> 956(Hardener) should be stored in a dry place, in the sealed original container, at temperatures between +2°C and +40°C (+35.6°F and 104°F). Under these storage conditions, the shelf life is 2 years. The product should not be exposed to direct sunlight.

**PRECAUTIONARY STATEMENT :**

Huntsman Advanced Materials Americas LLC maintains up-to-date Material Safety Data Sheets (MSDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

**First Aid!**

Refer to MSDS as mentioned above.

**KEEP OUT OF REACH OF CHILDREN****FOR PROFESSIONAL AND INDUSTRIAL USE ONLY**

---

**IMPORTANT LEGAL NOTICE**

Huntsman Advanced Materials warrants only that its products meet the specifications agreed with the user. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications.

The manufacture of materials is the subject of granted patents and patent applications; freedom to operate patented processes is not implied by this publication.

While all the information and recommendations in this publication are, to the best of Huntsman Advanced Material's knowledge, information and belief, accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, WHETHER EXPRESS OR IMPLIED, INCLUDING BUT WITHOUT LIMITATION, AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

The behavior of the products referred to in this publication in manufacturing processes and their suitability in any given end-use environment are dependent upon various conditions such as chemical compatibility, temperature, and other variables, which are not known to Huntsman Advanced Materials. It is the responsibility of the user to evaluate the manufacturing circumstances and the final product under actual end-use requirements and to adequately advise and warn purchasers and users thereof.

Products may be toxic and require special precautions in handling. The user should obtain Safety Data Sheets from Huntsman Advanced Materials containing detailed information on toxicity, together with proper shipping, handling and storage procedures, and should comply with all applicable safety and environmental standards.

Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent on manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.

Except where explicitly agreed otherwise, the sale of products referred to in this publication is subject to the general terms and conditions of sale of Huntsman Advanced Materials LLC or of its affiliated companies including without limitation, Huntsman Advanced Materials (Europe) BVBA, Huntsman Advanced Materials Americas Inc., and Huntsman Advanced Materials (Hong Kong) Ltd.

Huntsman Advanced Materials is an international business unit of Huntsman Corporation. Huntsman Advanced Materials trades through Huntsman affiliated companies in different countries including but not limited to Huntsman Advanced Materials LLC in the USA and Huntsman Advanced Materials (Europe) BVBA in Europe.

RenLam, Ren are registered trademarks of Huntsman Corporation or an affiliate thereof in one or more, but not all, countries.

Copyright © 2008 Huntsman Corporation or an affiliate thereof. All rights reserved.

Main Offices :

**Huntsman Corporation**  
10003 Woodloch Forest Dr.  
The Woodlands  
Texas 77380  
(281) 719-6000

**Huntsman Advanced Technology  
Center**

8600 Gosling Rd.  
The Woodlands  
Texas 77381  
(281) 719-7400  
Website :

[www.huntsman.com/advanced\\_materials](http://www.huntsman.com/advanced_materials)