



Rhino Linings®

**Rhino® 1310T-LtBlue /
4101-21 (90:10)
Blend Epoxy Hardener
Data Sheet**

DESCRIPTION: A 100% solid liquid epoxy with modified cycloaliphatic amine, high performance, ultra low viscosity hardener developed for resin infusion or vacuum bagging. Provides a long gel time, with a fast cure at standard molding temperatures. Mix ratio is 100:30 by weight resin:hardener.

SUGGESTED USES: Composite parts and tools produced by resin infusion.

PROPERTIES OF RHINO 1310T-LtBlue / 4101-21 (90:10) (neat):

Viscosity at 77° F, cps (mixed)	2350
Color (Hardener) (mixed)	transparent blue
Weight per Gallon (hardener)	7.90 – 8.00 lbs
Weight per Gallon (resin)	9.40 – 9.42 lbs
Mix Ratio by Weight	100:30 (resin:hardener)
Pot Life @ 77°F (150 grams)	3 hours (double viscosity from initial)
Gel Time @ 77°F (150 grams)	270 minutes
Cure Time	
Days at ambient	3 – 4
Hours at 60°C (140°F)	6 – 7
Hours at 70°C (158°F)	5 – 6
Hours at 80°C (176°F)	4.5
Hours at 90°C (194°F)	3.5

CURED PHYSICAL PROPERTIES OF RHINO 1310T-LtBlue / 4101-21 (90:10):

(Cure schedule of tested parts: 2 hours at ambient + 4 hours at 125°F (52°C) + 2 hours at 170°F (77°C))

Shore D Hardness	96
Flexural Strength, ksi	19.91
Tensile Strength, psi	7,384
Modulus of Elasticity, ksi	521.83

HOW SUPPLIED (net weights): FOB San Diego, CA. Rhino 1310T-LtBlue / 4101-21 (90:10): 440lb Drums, 2000lb Totes and Bulk Tanker.

SAFETY PRECAUTIONS: Health Considerations: Consult the Rhino Linings® Safety Data Sheets (SDS)

This chemical system requires the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines.

For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors. Because of numerous factors affecting results, **Rhino Linings Corporation makes no warranty of any kind, express or implied**, other than that the material conforms to its applicable current Standard Specifications. Rhino Linings Corporation hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Rhino Linings Corporation for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

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