

# Rhino<sup>™</sup> 3176 Safety 4:1 Press **Molding Hardener Data Sheet**



### **DESCRIPTION:**

Modified polyamide/polyamine hardener. 12 minute cycle time at standard process temperatures. Excellent bonding to difficult substrates. Fast wetting of fiberglass reinforcements. Easy to use 4:1 volumetric mix ratio. Excellent flexibility when used in sub-zero environments (on-snow applications). Low toxicity, low odor system. 100% solids. Ships DOT non-regulated.

# SUGGESTED USES:

Press molded parts such as snow-skis, water-skis, snowboards, etc.

### **PROPERTIES OF RHINO 3176 HARDENER (neat):**

Viscosity at 77°F, cps Color (Gardener) Weight Per Gallon Mix Ratio, Parts Per 100 Resin Gel Time at 77°F (100 grams) Thin Film Set Time at 175°F

250 - 4004 8.8lbs 22 by weight (4:1 volume) 25 - 30 minutes 12 - 14 minutes

ASTM D648-264

# **TYPICALLY CURED PROPERTIES W/ 1301 RESIN:**

(Cure schedule: Gel at ambient + 2 hours at 100°F or 7 days at 77°F)

HDT (°F)	185
Shore D Hardness	85
Flexural Strength, psi	18,560
Tensile Strength, psi	9,750
Elongation %	4.5

**HOW SUPPLIED** (net weights):

FOB San Diego, CA. Rhino 3176: 40lb Pails and 450lb Drums.

# SAFETY PRECAUTIONS:

#### Health Considerations: Consult the Rhino Linings<sup>®</sup> Material Safety Data Sheets.

This chemical system requires the use of proper safety equipment and procedures. Please follow the Rhino Linings® product MSDS 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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