

# ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES, INC.

Tennessee Certification #02034  
 Georgia / Louisiana Certification #04006  
 Alabama Certification #40780  
 Kentucky Certification #90040  
 Accreditation: NELAP / LELAP #A185697

1550 37TH STREET, NE  
 CLEVELAND, TENNESSEE 37312  
 (423) 476 - 7766 Fax: (423) 476-7714

*Scope of Accreditation:*  
 Wastewater, Surface Water, Ground Water, Drinking  
 Water, Solids, Hazardous Waste, Soils, Sediments,  
 and Sludges.

**Lab Report**      218404  
  
 7610  
 Polymaster  
 Attention:          Steve Sayers  
 10523 Lexington Drive  
 Knoxville, TN 37932

*Date Received*      3/ 6/2009  
*Date Sampled*      None Given  
*Time Sampled*  
*Date Requested*    3/10/2009  
*Rush Status*        Rush  
*Phone*                (865) 966-3005  
*Extension*  
 *Fax*                    (865) 675-3300  
 *Under NELAC Certification*  
*PO#*

**Sample Information**

R501 Foam

<i>Lab Report</i>	<i>218404</i>	<i>Result</i>	<i>MDL</i>	<i>Method</i>	<i>Date</i>	<i>Time</i>	<i>Analyst</i>
	Formaldehyde	*	NA	Attachment	3/9/2009	8.10	SAG

Q/A/QC Procedures required by the Method(s) were followed unless otherwise noted. Performance and acceptance standards for required NELAC Q/A/QC procedures were achieved unless otherwise noted. No significant modifications have been made to the Method(s). I attest that, based upon my inquiry of those individuals immediately responsible for reviewing the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of this laboratory. The laboratory retains sole ownership of data until full reimbursement has been made.

**Report approved by:** 

**ANALYTICAL INDUSTRIAL RESEARCH LABORATORIES, INC.**

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**Lab #218404 - Attachment**

Method - ASTM D5116 Modified - Small Chamber  
Material - Solid Foam Insulation  
Customer ID - R501 Foam  
Exposure - Total  
Chamber ID - #C5  
Chamber Volume - 0.02053 m3  
Chamber Loading - 0.95 m2/m3 (+/- 2 %)  
Exposed Sample Area - 0.01950 m2  
Sampling Time - 24 Hours  
Date/Time - 3/09/09 8:10 to 3/10/09 8:10  
Temperature - 25 C (+/- 1)  
Relative Humidity - 50% (+/- 4)  
Air Change Rate Per Hour - 0.5 (+/- 0.05)  
Sample Conditioning - None  
Chamber Background Target Level - Clean (Pass)  
Pressure - Normal  
Capture Vessel - 1% Sodium Bisulfite Trap

**Results**

Target Compound	Emission (mg/m3)	SER (mg/m2-hr)	PPM
Formaldehyde-Sample	<0.020	<0.012	<0.016
Formaldehyde-Background	<0.020	<0.012	<0.016

The sample was placed in a sealed test chamber for 24 hours with an air change rate of 0.5 +/- 0.05 per hour. At the end of the test period, the chamber atmosphere was quantified for aldehydes as per formaldehyde using a Thermo Scientific Genesys 10 UV instrument with a chromotropic acid colorimetric procedure.