

TECHNICAL BULLETIN

Alumaguard® Cold Adhesion Testing

Date: August 13, 2001

SUBJECT: Low Temperature Adhesion Testing

PRODUCTS TESTED: *Alumaguard* – Results apply to ALL Compounds

TEST METHOD: Low Temperature Flex and Overlap Bond Procedure

RESULTS:

Polyguard has concluded it's low temperature test on the *Alumaguard*. The test was done at both -15°F which is our standard testing range and then @ -31.5°F. The results are as follow:

There is very little variance in the testing results at the colder temperature.

Low Temperature Flex Procedure		
Test is done by placing 2 - 1" x 8" samples in freezer @ test temperature - condition for 2 hours. Remove samples separately & immediately bending them 90° over the mandrel at a uniform speed in approximately 2 seconds.		
@ -15°F	Alumaguard aluminum	100% passed
	Alumaguard white	100% passed
@ -31.5°F	Alumaguard aluminum	5 out of 6 passed
	Alumaguard white	100% passed

Overlap Bond Procedure		
Test is done by taking 2- 1" x 6" pieces of material, overlapping them then pressing them firmly together to achieve a full bond @77°F. Condition them in the freezer box for 2 hours @ test temperature. They are then pulled apart with the use of a tensile testing machine with a jaw separation rate of 20"/minute results are:		
@ -15°F	Alumaguard aluminum	19.5 lbs. per 1"
	Alumaguard white	17.2 lbs. per 1"
@ -31.5°F	Alumaguard aluminum	14.7 lbs. per 1"
	Alumaguard white	19.3 lbs. per 1"

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This information is based on our best knowledge, but
 POLYGUARD cannot guarantee the results to be obtained.

