

ALL MOLDED PLASTICS CO. INC
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January 29, 2014

Re: Testing of the Polylok 1.5- inch Cover Slab Bolster with Runners - Part No. 3062-15

To Whom It may Concern:

This report documents the results of the testing on 20 Polylok 1.5 inch Covers # 3062-15 Slab Bolsters with runners that was performed on January 29, 2014. The testing was conducted at Polylok Inc. in Wallingford, CT and was witnessed and verified by All Molded Plastics Co. Inc. These parts were injection molded from recycled Polycarbonate resin. This tinted polycarbonate regrind was supplied to Polylok as a recycled product by Debco Plastics Group.

Twenty 1.5 inch Covers were tested adhering to the Florida Department of Transportation Specification numbers 415- 5. 13. 1 and 415 – 5. 13. 3.

The testing was performed using a 6-ton Bench Press manufactured by Central Hydraulics. It contained a 4-ton hydraulic pump with a large accurate pressure gauge. (Please refer to the photos.)

At room temperature, 70 degrees F, all twenty Covers measured 1.50 in height at no load and 1.47- inches in height when subjected to a 300- pound pressure. This .03- inch deflection represents a 1.5% reduction in height.

At a temperature of 150 degrees F, all twenty Covers measured 1.5 inches in height at no load and 1.44- inches in height when subjected to a 300-pound pressure. This .06-inch deflection represents a 2% reduction in height.

At a temperature of 20 degrees F, all twenty Covers measured 2.00 inches in height at no load and 1.97-inches in height when subjected to a 300-pound pressure. This .03-inch deflection represents a 4 % reduction in height.

Twenty Covers were individually accurately weighed and then immersed in 76 degrees F water for a 60-hour period and then accurately weighed again. There was no measurable change of weight in any of the parts.

Polylok had a water absorption test performed on the tinted polycarbonate reprocessed resin in accordance with the ASTM Standard D570-98 (2005). A batch of the tinted reprocessed polycarbonate resin, from Debco Plastics Group, was shipped to STR “Specialized Technology Resources, Inc.” STR is an International Accredited Testing Laboratory that is located in Enfield, CT. They injection molded, from the supplied resin, disks that were four inches in diameter, and from them they machined three 2 inch by 2 inch test specimen samples.

Please refer to their Test Report and note that the average water absorption percentage from the three tested samples was only 0.157%.

Sincerely,

Adam Scott

