ASTM G154-06 & G151-00: UV Testing

The UV testing was performed on Storm Greeter by Touchstone Labs in Tridelphia, WV, again at the request of Southern Company, Inc. before sending it to EPRI. This was a 30 day test. The typical cycle during this test is 8 hours UV at 140 degrees F followed by 4 hours condensation at 122 degrees F. Storm Greeter was tested against a leading polyurethane that requires a UV blocking top coat whenever it is applied. The polyurethane coated test coupon was supplied to us by a pole manufacturer and the UV blocker was not applied before this test.

At the end of the 30 days, the coupons were subjected to a sheen test. The reflectivity of the unexposed side of the coupon was compared to the exposed side to measure the UV damage. The table below shows the results.

UV Test (Touchstone Labs – Tridelphia, West Virginia)

(ASTM G154-06 & ASTM G151-00)

Sample	Unexposed Gloss	Exposed Gloss	% Loss
Storm Greeter	38.7%	35.5%	3.3%
Polyurethane	27.1%	0.5%	98.2%

Before the second round of testing at EPRI, a UV inhibitor was added to the Storm Greeter formulation. The results of this second round of testing showed improvement in post UV testing adhesion and in other testing areas as well.