



November 20, 2014

Mr. Frank Zakar
National Transportation Safety Board
Materials Laboratory Division
490 L Enfant Plaza East
Washington, DC 20594
USA

Intertek PTL # P20144460

Dear Mr. Zakar:

Enclosed you will find the results of the testing you requested.

If you have any questions regarding the data, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, which appears to read "Kevin E. Schuman", is written over a solid black rectangular redaction box.

Kevin E. Schuman
Quality Manager

KES/mm
Enclosures

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50 Pearl Street, Pittsfield, MA 01201
Phone: (413) 499-0983 Fax: 499-2339
<http://www.ptli.com>

Testing : **Carbon Black Content In Olefin Plastics**
 Test Method : ASTM D1603-14
 Project Number : P20144460
 Customer : National Transportation Safety Board
 Attention : Frank Zakar
 Analyst : P. Bacon / K. Johnson
 Date : November 20, 2014
 Significance : ASTM D1603 specifies that weights be recorded to the nearest 0.1 milligram



Material : HDPE

Sample Name		Initial Weight of Crucible (grams)	Weight of Sample (grams)	Weight of Crucible and N ₂ Burn Residue (grams)	Weight of Crucible & Air Burn Residue (grams)	% Carbon Black
Bimodal HDPE Fitting	1	12.5313	1.0971	12.5553	12.5306	2.25
	2	10.9148	1.1000	10.9389	10.9148	2.19
					Average	2.22

		Initial Weight of Crucible (grams)	Weight of Sample (grams)	Weight of Crucible & Air Burn Residue (grams)	% Ash
	1	12.5313	1.0971	12.5306	-0.06
	2	10.9148	1.1000	10.9148	0.00
				Average	-0.03

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Material : HDPE

Sample Name		Initial Weight of Crucible (grams)	Weight of Sample (grams)	Weight of Crucible and N ₂ Burn Residue (grams)	Weight of Crucible & Air Burn Residue (grams)	% Carbon Black
Bimodal HDPE Pipe	1	12.4876	1.0475	12.5175	12.4848	3.12
	2	12.4340	1.0307	12.4631	12.4333	2.89
					Average	3.01

		Initial Weight of Crucible (grams)	Weight of Sample (grams)	Weight of Crucible & Air Burn Residue (grams)	% Ash
	1	12.4876	1.0475	12.4848	-0.27
	2	12.4340	1.0307	12.4333	-0.07
				Average	-0.17