

Confidential
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Blair Colby
Flint Hills Resources
118 Huntsman Lane
Longview, TX 75602

Lab No. 08T_39650_01
P.O. No. LVP2648
Test Facility: NAMSA
6750 Wales Road
Northwood, OH 43619

USP PHYSICOCHEMICAL TESTING – PLASTICS - COMPLETE

Test Article: P4C5Z-027
ID No. Lot: A804LS254

The test article was received on June 17, 2008.

Experimental
Procedure:

The pellets were pressed at 350°F. A 600.0 cm² portion of the test material was extracted at 70°C for 24 hours in 100 mL of USP Purified Water. Non-volatile residue, residue on ignition, heavy metals as lead and buffering capacity were determined in the eluate as outlined in the current USP.

Results:

	Assay Results	Limits Based on Area
Non-Volatile Residue	<1 mg	≤15 mg
Residue on Ignition	<1 mg*	≤5 mg
Heavy Metals	<1 ppm	≤1 ppm
Buffering Capacity	<1.0 mL	≤10.0 mL

*Based on non-volatile residue results.

Under the conditions of this test, the test results met the USP limits.

Date Prepared: June 23, 2008

Date Study Completed: June 26, 2008

Condition of Test Article Extract: clear and colorless

Condition of Control: clear and colorless

Results and conclusions apply only to the test article tested. No further evaluation of these results is made by NAMSA. Any extrapolation of these data to other samples is the responsibility of the sponsor. All procedures were conducted in conformance with good laboratory practice and ISO 17025.

Record Storage: All raw data pertaining to this study and a copy of the final report are to be retained in designated NAMSA archive files for a period of 5 years.

jmk Date Completed 06-26-08

Approved By Theresa M. Johnson
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Supervisor, Chemistry