

PLAINTIFFS' TRIAL EXHIBIT NO. 381  
Civil Action No. 6:17-CV-00047

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**From:** Matt Brittain/FTTCSF  
**Sent:** Friday, January 13, 2017 10:08 AM  
**To:** John Hyak/TXEHS; Chad Lee/FTCF SF  
**Cc:** Zhongyang Liu/FTTCSF  
**Subject:** RE: Test results of the unknown sample

John/Chad

Liu came by my office this morning to discuss further characterization off the powder sample from the diffuser. He noted that their investigations determined that the polymer was HDPE with 90% confidence. They also did find titanium and chromium in the sample. Because of the amount of sample, trace concentration, and presence of other contamination (sand, dirt, etc) he felt that he would not be able to determine the source (HDPE I, II, etc) with greater than 10% confidence.

Let us know if you need further assistance. Thanks

Matt Brittain  
Formosa Plastics, TX  
361-987-7323; fax 361-987-7319  
mattbrittain@ftpc.fpcusa.com

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**From:** John Hyak/TXEHS  
**Sent:** Tuesday, January 10, 2017 7:00 PM  
**To:** Matt Brittain/FTTCSF  
**Subject:** FW: Test results of the unknown sample

Matt:

Are you aware of what is going on with this?

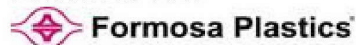
John T. Hyak

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**From:** Chad Lee/FTCF SF  
**Sent:** Tuesday, January 10, 2017 3:33 PM  
**To:** Rick Crabtree/FPC Vice President and General Manager  
**Cc:** John Hyak/TXEHS  
**Subject:** FW: Test results of the unknown sample

FYI

Chad Lee  
Water Department FPC-TX  
Phone 361-987-7341  
Fax 361-987-7657



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**From:** Chun-Yu (Jenny) Chen/FTTCSF  
**Sent:** Tuesday, January 10, 2017 3:31 PM  
**To:** Chad Lee/FTCF SF

**Cc:** Zhongyang Liu/FTTCSF; Honglan Lu/FTTCSF  
**Subject:** RE: Test results of the unknown sample

Chad,

After discussing with my manager, we can only confirm the unknown sample is HDPE.  
We are not sure the source, since it is a mixture.  
Also, the GPC plot of the sample does not exactly match the plots of our units' products.

Regards,  
Jenny Chen  
Office: 361-987-7564  
Lab: 361-987-8373

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**From:** Chun-Yu (Jenny) Chen/FTTCSF  
**Sent:** Tuesday, January 10, 2017 10:27 AM  
**To:** Chad Lee/FTCFSF  
**Cc:** Zhongyang Liu/FTTCSF  
**Subject:** RE: Test results of the unknown sample

Chad,

We can only get the preliminary results of FT-IR, DSC, GPC and elemental analysis based on the very little sample (Less than 30 mg).

Based on the data of one time measurement, the results indicate that the sample is a mixture and most likely containing the resins which may be from PE1 and PE2.

Regards,  
Jenny Chen  
Office: 361-987-7564  
Lab: 361-987-8373

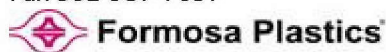
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**From:** Chad Lee/FTCFSF  
**Sent:** Tuesday, January 03, 2017 2:54 PM  
**To:** Chun-Yu Chen/FTTCSF  
**Cc:** John Hyak/TXEHS; Zhongyang Liu/FTTCSF  
**Subject:** RE: Test results of the unknown sample

Jenny,  
We appreciate the update. Unfortunately we sent in all the sample that was collected and sent to us by the 3rd party lab (we realize it wasn't much). Hopefully once you obtain the additional info per the below email we can discuss it with the individual unit and determine a root cause.

Thanks

Chad Lee  
Water Department FPC-TX  
Phone 361-987-7341  
Fax 361-987-7657



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**From:** Chun-Yu Chen/FTTCSF  
**Sent:** Tuesday, January 03, 2017 2:12 PM  
**To:** Chad Lee/FTCF SF  
**Cc:** Zhongyang Liu/FTTCSF  
**Subject:** RE: Test results of the unknown sample

Hi Chad,

Yes. We need two more data from GPC and XRF to help us determining the possible source. However, the GPC instrument is under calibration and changing a new column, so the data may not be available this week.

As soon as we get the results, we will let you know.

We are wondering if you have more samples, so we can run further tests to double confirm.

Regards,  
Jenny Chen  
Research Scientist  
BTD/Formosa Plastics.

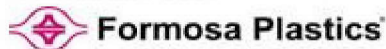
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**From:** Chad Lee/FTCF SF  
**Sent:** Tuesday, January 03, 2017 2:00 PM  
**To:** Chun-Yu Chen/FTTCSF  
**Subject:** RE: Test results of the unknown sample

Jenny,  
Just following up to see if you were able to discuss this with your manager? Any info will be greatly appreciated.

Thanks

Chad Lee  
Water Department FPC-TX  
Phone 361-987-7341  
Fax 361-987-7657



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**From:** Chad Lee/FTCF SF  
**Sent:** Thursday, December 29, 2016 2:38 PM  
**To:** Chun-Yu Chen/FTTCSF  
**Cc:** John Hyak/TXEHS  
**Subject:** FW: Test results of the unknown sample

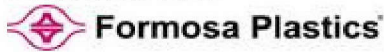
Jenny,  
As we discussed there is a HDPE1 unit and a HDPE2 unit. It would be very helpful if we can identify the exact additive and plasticizer so we will know which one of the units it came from. You said the highest percentage match was I believe a E927 plasticizer but you wanted to discuss with your manager when he returns 1/3/17. We appreciate your help in identifying this substance and if you have any questions please let us know.

Thanks

Chad Lee  
Water Department FPC-TX

Phone 361-987-7341

Fax 361-987-7657



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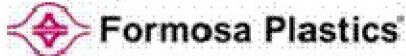
**From:** Michael Rodriguez/FTTCTN  
**Sent:** Thursday, December 29, 2016 2:06 PM  
**To:** Chad Lee/FTCFSF  
**Cc:** John Hyak/TXEHS; Matt Brittain/FTTCSF  
**Subject:** FW: Test results of the unknown sample

FYI,

These are the results for the unknown sample. Dr. Jenny Chen has determined that the majority of the unknown sample we filtered is HDPE. See e-mail below and attachments.

Thanks,  
Mike R.

Michael J. Rodriguez  
EPA Lab Supervisor  
Formosa Plastics  
301 Formosa Drive  
Point Comfort, TX 77978  
(361)987-8352  
Cell (361)935-7315



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**From:** Chun-Yu Chen/FTTCSF  
**Sent:** Thursday, December 29, 2016 1:44 PM  
**To:** Michael Rodriguez/FTTCTN  
**Cc:** Zhongyang Liu/FTTCSF; Susie Xie/FTTCSF  
**Subject:** Test results of the unknown sample

Hi Mike,

The e-files of DSC and FT-IR are attached.

Based on the melting temperature (DSC) and the type/concentrations of comonomers (FT-IR), the majority of the unknown sample is HDPE.

Regards,

Jenny Chen  
Office: 361-987-7564  
Lab: 361-987-8373