



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL CERTIFIED MAIL  
MUSKINGUM COUNTY**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 06-06372**

**DATE: 1/4/2001**

Plaskolite Inc  
Timothy Ling  
PO Box 1497 1770 Joyce Ave  
Columbus, OH 43216-1497

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

CC: USEPA

SEDO



Permit To Install

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**FINAL PERMIT TO INSTALL 06-06372**

Application Number: 06-06372  
APS Premise Number: 0660010238  
Permit Fee: **\$1000**  
Name of Facility: Plaskolite Inc  
Person to Contact: Timothy Ling  
Address: PO Box 1497 1770 Joyce Ave  
Columbus, OH 43216-1497

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**1175 5 Bs Dr**  
**Zanesville, Ohio**

Description of proposed emissions unit(s):  
**Plastic Extruder.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency



Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### 2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### 3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

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representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

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Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

**10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**11. Applicability**

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

**12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

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#### 14. Construction Compliance Certification

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

#### 15. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

### B. Permit to Install Summary of Allowable Emissions

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)**  
**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

| <u>Pollutant</u> | <u>Tons Per Year</u> |
|------------------|----------------------|
| Particulate      | 1.52                 |
| OC               | 1.77                 |

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| <u>Operations, Property,<br/>and/or Equipment</u>                               | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions<br/>Limitations/Control Measures</u>                                                                                                                                    |
|---------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P002 - Line # ZV-2 Plastic extruder vented to a condenser and thermal oxidizer. | OAC rule 3745-31-05(A)(3)            | This emissions unit is limited to:<br><br>0.184 pounds per hour and 0.806 tons per year organic compound emissions,<br><br>0.172 pounds per hour and 0.752 tons per year particulate emissions. |
|                                                                                 | OAC rule 3745-17-11                  | The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).                                                |
|                                                                                 | OAC rule 3745-17-07(A)               | Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.                                                                                  |

**2. Additional Terms and Conditions**

- 2.a None.

## B. Operational Restrictions

### Condenser Operational Restriction

1. The permittee shall operate the condenser at all times that the emissions unit is in operation.
2. The temperature differential between the inlet and the outlet of the condenser shall be greater than or equal to 20 degrees F. The temperature of the exhaust gases from the condenser shall not exceed 95 degrees F.

### Thermal Incinerator Operational Restriction

3. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

## C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall operate and maintain a continuous temperature monitor which measures the temperature of the inlet and exhaust gases at the condenser when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The accuracy for each thermocouple shall be guaranteed by the manufacturer to be within  $\pm 1$  percent of the temperature being measured or  $\pm 5$  degrees Fahrenheit, whichever is greater. The thermocouple shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each shift:

- a. The maximum temperature of the inlet and exhaust gases from the condenser for each shift.
- b. The minimum temperature differential between the inlet and exhaust gases from the condenser for each shift.
- c. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

### Thermal Incinerator Temperature Monitoring and Recordkeeping Requirements

The permittee shall operate and maintain a continuous temperature monitor and recorder which measures

and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
- b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

#### **D. Reporting Requirements**

1. The permittee shall submit temperature deviation (excursion) reports that identify any time during which the temperature of the exhaust gases from the condenser exceeded the temperature limitation specified above.
2. The permittee shall submit temperature deviation (excursion) reports that identify any time during which the temperature differential between the inlet and exhaust gases from the condenser was less than the temperature differential limitation specified above.
3. Thermal Incinerator Temperature Reporting Requirements

The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

#### **E. Testing Requirements**

1. Emission Limitation

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method

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Compliance with the visible emission limit shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1). No visible emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

2. Emission Limitation  
0.50 pounds per hour and 2.1 tons per year particulate emissions.

Applicable Compliance Method

Compliance with the particulate matter emission limit shall be determined by multiplying the hourly throughput by the emission factor of 0.0001875 pounds per pound of plastic extruded. Note: Emission tests also may be required in accordance with 40 CFR Part 60, Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03.

3. Emission Limitation

0.94 pounds per hour and 4.1 tons per year organic compound emissions

Applicable Compliance Method

Compliance with the organic compound emission limit shall be determined by the following equations:

$(0.0025 \text{ lb/lb of plastic extruded}) \times (\text{actual lb/hour throughput}) \times (0.15 \text{ [85\% control]}) = \text{pounds OC emissions/hour}$

$(0.0025 \text{ lb/lb of plastic extruded}) \times (\text{total lb/year throughput}) \times (0.15 \text{ [85\% control]}) \times (0.0005) = \text{tons OC emissions/year.}$

Note: Emission tests also may be required in accordance with 40 CFR Part 60, Appendix A, Method 25 or 25A and the procedures specified in OAC rule 3745-17-03.

4. Compliance with the minimum operating temperature restriction for the thermal incinerator shall be determined based on the record keeping specified in Section C.5.
5. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 90 days after startup.
  - b. The emission testing shall be conducted to demonstrate compliance with the VOC emission limitations.
  - c. Test method 25A of 40 CFR Part 60, Appendix A shall be employed to demonstrate compliance with the allowable mass emission rate(s) for VOC. Incinerator control efficiency shall be determined by dividing the outlet emission rate by the total VOC input rate.
  - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District

Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

**F. Miscellaneous Requirements**

None.

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| <u>Operations, Property, and/or Equipment</u>                               | <u>Applicable Rules/Requirements</u>                                               | <u>Applicable Emissions Limitations/Control Measures</u>                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P003 - Line Z-3 Plastic extruder vented to a condenser and thermal oxidizer | OAC rule 3745-31-05(A)(3)<br><br>OAC rule 3745-17-11<br><br>OAC rule 3745-17-07(A) | This emissions unit is limited to:<br><br>0.147 pounds per hour and 0.643 tons per year organic compound emissions,<br><br>0.138 pounds per hour and 0.604 tons per year particulate emissions.<br><br>The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).<br><br>Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule. |

**2. Additional Terms and Conditions**

- 2.a None.

**B. Operational Restrictions**

Condenser Operational Restriction

1. The permittee shall operate the condenser at all times that the emissions unit is in operation.
2. The temperature differential between the inlet and the outlet of the condenser shall be greater than or equal to 20 degrees F. The temperature of the exhaust gases from the condenser shall not exceed 95 degrees F.

#### Thermal Incinerator Operational Restriction

3. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.

### **C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall operate and maintain a continuous temperature monitor which measures the temperature of the inlet and exhaust gases at the condenser when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The accuracy for each thermocouple shall be guaranteed by the manufacturer to be within  $\pm 1$  percent of the temperature being measured or  $\pm 5$  degrees Fahrenheit, whichever is greater. The thermocouple shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each shift:

- a. The maximum temperature of the inlet and exhaust gases from the condenser for each shift.
- b. The minimum temperature differential between the inlet and exhaust gases from the condenser for each shift.
- c. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

#### Thermal Incinerator Temperature Monitoring and Recordkeeping Requirements

The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of

**Plaskolite Inc****PTI Application: 06-06272****Issued****Facility ID: 0660010238**Emissions Unit ID: **P003**

accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
- b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

#### **D. Reporting Requirements**

1. The permittee shall submit temperature deviation (excursion) reports that identify any time during which the temperature of the exhaust gases from the condenser exceeded the temperature limitation specified above.
2. The permittee shall submit temperature deviation (excursion) reports that identify any time during which the temperature differential between the inlet and exhaust gases from the condenser was less than the temperature differential limitation specified above.
3. Thermal Incinerator Temperature Reporting Requirements

The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

#### **E. Testing Requirements**

1. Emission Limitation  
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

##### Applicable Compliance Method

Compliance with the visible emission limit shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1). No visible emission testing is specifically required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant

to OAC rule 3745-15-04(A).

2. Emission Limitation  
0.50 pounds per hour and 2.1 tons per year particulate emissions.

Applicable Compliance Method

Compliance with the particulate matter emission limit is shall be determined by multiplying the hourly throughput by the emission factor of 0.0001875 pounds per pound of plastic extruded.

Note: Emission tests also may be required in accordance with 40 CFR Part 60, Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03.

3. Emission Limitation  
0.94 pounds per hour and 4.1 tons per year organic compound emissions

Applicable Compliance Method

Compliance with the organic compound emission limit shall be determined by the following equations:

$(0.0025 \text{ lb/lb of plastic extruded}) \times (\text{actual lb/hour throughput}) \times (0.15 \text{ [85\% control]}) = \text{pounds OC emissions/hour}$

$(0.0025 \text{ lb/lb of plastic extruded}) \times (\text{total lb/year throughput}) \times (0.15 \text{ [85\% control]}) \times (0.0005) = \text{tons OC emissions/year.}$

Note: Emission tests also may be required in accordance with 40 CFR Part 60, Appendix A, Method 25 or 25A and the procedures specified in OAC rule 3745-17-03.

4. Compliance with the minimum operating temperature restriction for the thermal incinerator shall be determined based on the record keeping specified in Section C.5.
5. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 90 days after startup.
  - b. The emission testing shall be conducted to demonstrate compliance with the VOC emission limitations.
  - c. Test method 25A of 40 CFR Part 60, Appendix A shall be employed to demonstrate compliance with the allowable mass emission rate(s) for VOC. Incinerator control efficiency shall be determined by dividing the outlet emission rate by the total VOC input rate.
  - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

**Plaskolite Inc****PTI Application: 06-06272****Issued****Facility ID: 0660010238**Emissions Unit ID: **P003**

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

**F. Miscellaneous Requirements**

None.

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| <u>Operations, Property, and/or Equipment</u>                                 | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u>                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P004 - Line # ZV-4 Plastic extruder vented to condenser and thermal oxidizer. | OAC rule 3745-31-05(A)(3)            | This emissions unit is limited to:<br><br>0.074 pounds per hour and 0.324 tons per year organic compound emissions,                                                                                                                                                    |
|                                                                               | OAC rule 3745-17-11                  | 0.037 pounds per hour and 0.162 tons per year particulate emissions.                                                                                                                                                                                                   |
|                                                                               | OAC rule 3745-17-07(A)               | The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).<br><br>Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule. |

**2. Additional Terms and Conditions**

- 2.a None.

**B. Operational Restrictions**

#### Condenser Operational Restriction

1. The permittee shall operate the condenser at all times that the emissions unit is in operation.
2. The temperature differential between the inlet and the outlet of the condenser shall be greater than or equal to 20 degrees F. The temperature of the exhaust gases from the condenser shall not exceed 95 degrees F.

#### Thermal Incinerator Operational Restriction

3. The average combustion temperature within the thermal incinerator, for any 3-hour block of time when the emissions unit is in operation, shall not be more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance

### **C. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall operate and maintain a continuous temperature monitor which measures the temperature of the inlet and exhaust gases at the condenser when the emissions unit is in operation. Units shall be in degrees Fahrenheit. The accuracy for each thermocouple shall be guaranteed by the manufacturer to be within  $\pm 1$  percent of the temperature being measured or  $\pm 5$  degrees Fahrenheit, whichever is greater. The thermocouple shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each shift:

- a. The maximum temperature of the inlet and exhaust gases from the condenser for each shift.
- b. The minimum temperature differential between the inlet and exhaust gases from the condenser for each shift.
- c. A log or record of operating time for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

#### Thermal Incinerator Temperature Monitoring and Recordkeeping Requirements

The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the combustion temperature within the thermal incinerator when the emissions unit is in

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Issued

Facility ID: 0660010238

Emissions Unit ID: P004

operation. Units shall be in degrees Fahrenheit. The monitoring and recording devices shall be capable of accurately measuring the desired parameter. The temperature monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

The permittee shall collect and record the following information for each day:

- a. All 3-hour blocks of time during which the average combustion temperature within the thermal incinerator, when the emissions unit was in operation, was more than 50 degrees Fahrenheit below the average temperature during the most recent emission test that demonstrated the emissions unit was in compliance.
- b. A log of the downtime for the capture (collection) system, control device, and monitoring equipment, when the associated emissions unit was in operation.

#### D. Reporting Requirements

1. The permittee shall submit temperature deviation (excursion) reports that identify any time during which the temperature of the exhaust gases from the condenser exceeded the temperature limitation specified above.
2. The permittee shall submit temperature deviation (excursion) reports that identify any time during which the temperature differential between the inlet and exhaust gases from the condenser was less than the temperature differential limitation specified above.
3. Thermal Incinerator Temperature Reporting Requirements

The permittee shall submit deviation (excursion) reports which identify all 3-hour blocks of time during which the average combustion temperature within the thermal incinerator does not comply with the temperature limitation specified above.

#### E. Testing Requirements

1. Emission Limitation

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

##### Applicable Compliance Method

Compliance with the visible emission limit shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1). No visible emission testing is specifically

required to demonstrate compliance with this limit but, if appropriate, may be requested pursuant to OAC rule 3745-15-04(A).

2. Emission Limitation  
0.50 pounds per hour and 2.1 tons per year particulate emissions.

Applicable Compliance Method

Compliance with the particulate matter emission limit is shall be determined by multiplying the hourly throughput by the emission factor of 0.0001875 pounds per pound of plastic extruded. Note: Emission tests also may be required in accordance with 40 CFR Part 60, Appendix A, Methods 1-5 and the procedures specified in OAC rule 3745-17-03.

3. Emission Limitation  
0.94 pounds per hour and 4.1 tons per year organic compound emissions

Applicable Compliance Method

Compliance with the organic compound emission limit shall be determined by the following equations:

$(0.0025 \text{ lb/lb of plastic extruded}) \times (\text{actual lb/hour throughput}) \times (0.15 \text{ [85\% control]}) = \text{pounds OC emissions/hour}$

$(0.0025 \text{ lb/lb of plastic extruded}) \times (\text{total lb/year throughput}) \times (0.15 \text{ [85\% control]}) \times (0.0005) = \text{tons OC emissions/year.}$

Note: Emission tests also may be required in accordance with 40 CFR Part 60, Appendix A, Method 25 or 25A and the procedures specified in OAC rule 3745-17-03.

4. Compliance with the minimum operating temperature restriction for the thermal incinerator shall be determined based on the record keeping specified in Section C.5.
5. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted within 90 days after startup.
  - b. The emission testing shall be conducted to demonstrate compliance with the VOC emission limitations.
  - c. Test method 25A of 40 CFR Part 60, Appendix A shall be employed to demonstrate compliance with the allowable mass emission rate(s) for VOC. Incinerator control efficiency shall be determined by dividing the outlet emission rate by the total VOC input rate.
  - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

**Plaskolite Inc****PTI Application: 06-06373****Issued****Facility ID: 0660010238**Emissions Unit ID: **P004**

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

**F. Miscellaneous Requirements**

None.

**NEW SOURCE REVIEW FORM B**

PTI Number: 06-06372 Facility ID: 0660010238

FACILITY NAME Plaskolite Inc

FACILITY DESCRIPTION Plastic Extruder. CITY/TWP Zanesville

SIC CODE 3089 SCC CODE 3-08-007-99 EMISSIONS UNIT ID P002

EMISSIONS UNIT DESCRIPTION Line Z- 2 Plastic extruder.

DATE INSTALLED September 2001 (proposed)

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

| Pollutants         | Air Quality Description | Actual Emissions Rate |               | PTI Allowable   |               |
|--------------------|-------------------------|-----------------------|---------------|-----------------|---------------|
|                    |                         | Short Term Rate       | Tons Per Year | Short Term Rate | Tons Per Year |
| Particulate Matter |                         | 0.138                 | 0.483         | 0.172           | 0.752         |
| PM <sub>10</sub>   |                         |                       |               |                 |               |
| Sulfur Dioxide     |                         |                       |               |                 |               |
| Organic Compounds  |                         | 0.147                 | 0.515         | 0.184           | 0.806         |
| Nitrogen Oxides    |                         |                       |               |                 |               |
| Carbon Monoxide    |                         |                       |               |                 |               |
| Lead               |                         |                       |               |                 |               |
| Other: Air Toxics  |                         |                       |               |                 |               |

APPLICABLE FEDERAL RULES:

NSPS? NESHAP? PSD? OFFSET POLICY?

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$N/A

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? YES X NO

IDENTIFY THE AIR CONTAMINANTS: Particulate, Organic Compounds



**2 NEW SC**

PTI Num

FACILITY

Emissions Unit ID: **P004**

FACILITY DESCRIPTION Plastic Extruder. CITY/TWP Zanesville

SIC CODE 3089 SCC CODE 3-08-007-99 EMISSIONS UNIT ID P004

EMISSIONS UNIT DESCRIPTION Line Z 4 Plastic Extruder.

DATE INSTALLED January 2001 (proposed)

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

| Pollutants         | Air Quality Description | Actual Emissions Rate |               | PTI Allowable   |               |
|--------------------|-------------------------|-----------------------|---------------|-----------------|---------------|
|                    |                         | Short Term Rate       | Tons Per Year | Short Term Rate | Tons Per Year |
| Particulate Matter |                         | 0.037                 | 0.162         | 0.037           | 0.129         |
| PM <sub>10</sub>   |                         |                       |               |                 |               |
| Sulfur Dioxide     |                         |                       |               |                 |               |
| Organic Compounds  |                         | 0.074                 | 0.259         | 0.074           | 0.324         |
| Nitrogen Oxides    |                         |                       |               |                 |               |
| Carbon Monoxide    |                         |                       |               |                 |               |
| Lead               |                         |                       |               |                 |               |
| Other: Air Toxics  |                         |                       |               |                 |               |

APPLICABLE FEDERAL RULES:

NSPS? \_\_\_\_\_ NESHAP? \_\_\_\_\_ PSD? \_\_\_\_\_ OFFSET POLICY? \_\_\_\_\_

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No.

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? N/A

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES X NO

IDENTIFY THE AIR CONTAMINANTS: Particulate, Organic Compounds

**NEW SOURCE REVIEW FORM B**

PTI Number: 06-06372

Facility ID: 0660010238

FACILITY NAME Plaskolite Inc

FACILITY DESCRIPTION Plastic Extruder.

CITY/TWP Zanesville

Emissions Unit ID: P004

Ohio EPA Permit to Install Information Form Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit **hard copy items to Pam McGraner**, AQM&P, DAPC, Central Office, and electronic files to [airpti@epa.state.oh.us](mailto:airpti@epa.state.oh.us)

*Please fill out the following. If the checkbox does not work, replace it with an 'X'*

|                                               | <u>Electronic</u>                   | <u>Additional information File Name Convention (your PTI # plus this letter)</u> | <u>Hard Copy</u>                    | <u>None</u>              |
|-----------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------|-------------------------------------|--------------------------|
| <u>Calculations (required)</u>                | <input checked="" type="checkbox"/> | 000000c.wpd                                                                      | <input checked="" type="checkbox"/> |                          |
| <u>Modeling form/results</u>                  | <input type="checkbox"/>            | 000000s.wpd                                                                      | <input type="checkbox"/>            | <input type="checkbox"/> |
| <u>PTI Application (complete or partial)*</u> | <input checked="" type="checkbox"/> | 000000a.wpd                                                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <u>BAT Study</u>                              | <input type="checkbox"/>            | 000000b.wpd                                                                      | <input type="checkbox"/>            | <input type="checkbox"/> |
| <u>Other/misc.</u>                            | <input type="checkbox"/>            | 000000t.wpd                                                                      | <input type="checkbox"/>            | <input type="checkbox"/> |

\* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

NSR Discussion

NONE

Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):

Synthetic Minor Determination and/or  Netting Determination  
Permit To Install ENTER PTI NUMBER HERE

A. Source Description

B. Facility Emissions and Attainment Status

C. Source Emissions

D. Conclusion

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

NONE

Please complete:

**SUMMARY** (for informational purposes only)

**NEW SOURCE REVIEW FORM B**

PTI Number: 06-06372

Facility ID: 0660010238

FACILITY NAME Plaskolite Inc

FACILITY DESCRIPTION Plastic Extruder.

CITY/TWP Zanesville

Emissions Unit ID: **P004**

**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

| <u>Pollutant</u> | <u>Tons Per Year</u> |
|------------------|----------------------|
| Particulate      | 1.52                 |
| OC               | 1.77                 |