



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL
ASHTABULA COUNTY**

CERTIFIED MAIL

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: 02-3090

DATE: October 6, 1999

Plasticolors, Inc.
Eric J Madachik
PO Box 816
Ashtabula, OH 44004

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
DAPC, NEDO



STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

Permit To Install

Issue Date: October 6, 1999

FINAL PERMIT TO INSTALL 02-3090

Application Number: 02-3090
APS Premise Number: 0204010285
Permit Fee: **\$ 1200**
Name of Facility: Plasticolors, Inc.
Person to Contact: Eric J Madachik
Address: PO Box 816
Ashtabula, OH 44004

Location of proposed air contaminant source(s) [emissions unit(s)]:
2600 Michigan Avenue
Ashtabula, Ohio

Description of proposed emissions unit(s):
ONE HEATED TWO-ROLL MILL (TWO-ROLL MILL #1) AND ONE LOW INTENSITY MIXER (TANK MIXER #26).

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

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

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.

14. Construction Compliance Certification

Plasticolors, Inc.
 PTI Application: **02-3090**
October 6, 1999

Facility ID: **0204010285**

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>
PM	1.76
VOC	7.30

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>
Two-Roll Mill #1 used for cellulose acetate butyrate chip production equipped with a fabric filter for particulate matter control.	OAC rule 3745-31-05(A)(3)	Particulate matter emissions: 0.20 pound per hour and 0.88 ton per year. Visible particulate emissions shall not exceed 10% opacity, as a six minute average.
	OAC rule 3745-17-11(B)(1)	See Additional Terms and Conditions A.2.a.
	OAC rule 3745-17-07(A)(1)	See Additional Terms and Conditions A.2.b.

2. Additional Terms and Conditions

- 2.a The emissions limit based on OAC rule 3745-17-11 is less stringent than the limit established pursuant to OAC rule 3745-31-05.
- 2.b The emissions limit based on OAC rule 3745-17-07 is less stringent than the limit established pursuant to OAC rule 3745-31-05.

B. Operational Restrictions

- 1. The pressure drop across the baghouse shall be maintained within the range of 4 to 6 inches of water while the emissions unit is in operation.
- 2. The permittee shall regularly maintain the fabric filter control equipment associated with

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Plastic

PTI A₁

October 6, 1999

Emissions Unit ID: **P026**

this emissions unit in accordance with the manufacturer's recommendations. Maintenance shall include regular repair and/or replacement of filters so as to maximize the particulate collection efficiency of this dust control system.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall record the type and amount of material processed at this emissions unit on an annual basis.
3. The permittee shall record the hours of operation of this emissions unit on a daily basis.

D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.

E. Testing Requirements

1. Emission Limitation:

0.20 pound per hour of particulate matter

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the allowable particulate matter emission limit shall be determined in accordance with the following method(s): Methods 1-4, and Method 5 of 40 CFR Part 60, Appendix A.

2. Emission Limitation:

0.88 ton per year of particulate matter

Applicable Compliance Method:

Compliance shall be based on the record keeping requirements specified in Section C and emission factors outlined in AP-42, Section 6.4 (Paint and Varnish, 5/83 - Fifth Edition).

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October 6, 1999

Emissions Unit ID: **P026**

$$E(\text{tpy}) = \frac{(\text{Maximum Annual Production (tons/yr)} \times \text{Emission Factor} \times (100 - \text{Control Efficiency})/100 \times \text{Annual Hours of Operation})}{2,000 \text{ lb/ton}}$$

Emission factor = 20 pounds of PM per ton of pigment.

Control Efficiency = 0.95 (95%) for fabric filter

3. Emission Limitation:
10% opacity for visible particulate matter emissions

Applicable Compliance Method:

If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference method 9.

F. Miscellaneous Requirements

None.

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S) [Continued]

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>
Tank Mixer #26 used for low intensity mixing of cellulose acetate butyrate equipped with a fabric filter for particulate matter control.	OAC rule 3745-31-05(A)(3)	Particulate matter emissions: 0.20 pound per hour and 0.88 ton per year.
	OAC rule 3745-17-11(B)(1)	Visible particulate emissions shall not exceed 10% opacity, as a six minute average.
	OAC rule 3745-17-07(A)(1)	See Additional Terms and Conditions A.2.a.
	OAC rule 3745-21-07(G)(2)	See Additional Terms and Conditions A.2.b.
		Organic compound emissions: 8 pounds per hour and 40 pounds per day.

2. Additional Terms and Conditions

- 2.a None.

B. Operational Restrictions

1. The pressure drop across the baghouse shall be maintained within the range of 4 to 6 inches of water while the emissions unit is in operation.

2. The permittee shall regularly maintain the fabric filter control equipment associated with this emissions unit in accordance with the manufacturer's recommendations. Maintenance shall include regular repair and/or replacement of filters so as to maximize the particulate collection efficiency of this dust control system.

C. Monitoring and/or Recordkeeping Requirements

1. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a daily basis.
2. The permittee shall collect and record the following information for each change where the air toxic modeling was required pursuant to the Air Toxic Policy:
 - a. background data that describes the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.); and,
 - b. a copy of the resulting computer model runs that show the results of the application of the Air Toxic Policy for the change.
3. The permittee shall record the following information for this emissions unit on a daily basis:
 - a. the type and amount of solid and liquid (volatile) materials processed, in pounds per day;
 - b. the number of hours of operation, in hours per day;
 - c. the total organic compound emission rate, in pounds per day using the following equation:
$$E(\text{lbs/day}) = \text{Maximum hourly production rate (lbs/hr)} \times \text{Percentage by weight of organic compounds in product} \times 0.01 \times \text{Daily operating hours}$$

Where: 0.01 is an emission factor as outlined in AP-42, Section 6.4 which states that approximately 1% of the solvent material is lost to the atmosphere.
 - d. the average hourly organic compound emission rate, in pounds per hour (c/b).

D. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified above.
2. The permittee shall submit deviation (excursion) reports that identify each day during which the average organic compound emission rate exceeded 8 pounds per hour and the average actual organic compound emission rate for each such day. A description of any corrective actions taken to address any exceedance of any emission limitation shall also be included in this report.
3. The permittee shall submit deviation (excursion) reports that identify each day during which the organic compound emission rate exceeded 40 pounds per day and the actual organic compound emission rate for each such day. A description of any corrective actions taken to address any exceedance of any emission limitation shall also be included in this report.

E. Testing Requirements

1. Emission Limitation:

0.20 pound per hour of particulate matter

Applicable Compliance Method:

If required by the Ohio EPA, compliance with the allowable particulate matter emission limit shall be determined in accordance with the following method(s): Methods 1-4, and Method 5 of 40 CFR Part 60, Appendix A.

2. Emission Limitation:

0.88 ton per year of particulate matter

Applicable Compliance Method:

Compliance shall be based on the record keeping requirements specified in Section C and emission factors outlined in AP-42, Section 6.4 (Paint and Varnish, 5/83 - Fifth Edition).

$$E(\text{tpy}) = \frac{(\text{Maximum Annual Production (tons/yr)} \times \text{Emission Factor} \times (100 - \text{Control Efficiency})/100 \times \text{Annual Hours of Operation})}{2,000 \text{ lb/ton}}$$

Emission factor = 20 pounds of PM per ton of pigment.

Control Efficiency = 0.95 (95%) for fabric filter

3. Emission Limitation:

8 pounds per hour of organic compounds

Applicable Compliance Method:

Compliance shall be based using the record keeping requirements specified in Section C for hourly OC emissions.

4. Emission Limitation:

40 pounds per day of organic compounds

Applicable Compliance Method:

Compliance shall be based on the record keeping requirements specified in Section C using the following equation:

$$E(\text{lb/day}) = \text{Maximum hourly production rate (lb/hr)} \times \text{Percentage by weight of volatile materials in product} \times 0.01 \times \text{Daily operating hours}$$

Where: 0.01 is an emission factor as outlined in AP-42, Section 6.4 which states that approximately 1% of the solvent material is lost to the atmosphere.

5. Emission Limitation:

10% opacity for visible particulate matter emissions

Applicable Compliance Method:

If required by the Ohio EPA, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1), using the methods and procedures specified in U.S. EPA reference method 9.

F. Miscellaneous Requirements

This permit allows the use of materials specified by the permittee in the permit to install application for this emissions unit. To fulfill the best available technology requirements of (OAC) rule 3745-31-05 and to ensure compliance with OAC rule 3745-15-07 (Air Pollution Nuisances Prohibited), the emission limitation(s) specified in this permit was (were) established using the Ohio EPA's "Air Toxic Policy" and is (are) based on both the materials used and the design parameters of the emissions unit's exhaust system, as specified in the application. The Ohio EPA's "Air Toxic Policy" was applied for each pollutant using the SCREEN 3.0 model and comparing the predicted 1-hour maximum ground-level concentration to the Maximum Acceptable Ground-Level Concentration (MAGLC). The following summarizes the results of the modeling for each pollutant:

1. Pollutant: Xylene

TLV (ug/m³): 434

Maximum Hourly Emission Rate (lbs/hr): 4.0

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 118.5

MAGLC (ug/m³): 10,333

2. Pollutant: MEK

TLV (ug/m³): 590

Maximum Hourly Emission Rate (lbs/hr): 4.0

Predicted 1-Hour Maximum Ground-Level Concentration (ug/m³): 118.5

MAGLC (ug/m³): 14,048

OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified permit to install prior to making a "modification" as defined by the OAC rule 3745-31-01. The permittee is hereby advised that the following changes to the process may be determined to be a "modification":

- a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value specified in the above table;
- b. changes to the emissions unit or its exhaust parameters (e.g., increased emission rate [not including an increase in an "allowable" emission limitation specified in the terms and conditions of this permit], reduced exhaust gas flow rate, and decreased stack height);
- c. changes in the composition of the materials used, or use of new materials, that would result in the emission of an air contaminant not previously permitted; and
- d. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant that has a listed TLV.

The Ohio EPA will not consider any of the above-mentioned as a "modification" requiring a permit to install, if the following conditions are met:

- a. the change is not otherwise considered a "modification" under OAC Chapter 3745-31;
- b. the permittee can continue to comply with the allowable emission limitations

specified in its permit to install; and

- c. prior to the change, the applicant conducts an evaluation pursuant to the Air Toxic Policy, determines that the changed emissions unit still satisfies the Air Toxic Policy, and the permittee maintains documentation that identifies the change and the results of the application of the Air Toxic Policy for the change.

For any change to the emissions unit or its method of operation that either would require an increase in the emission limitation(s) established by this permit or would otherwise be considered a "modification" as defined in OAC rule 3745-31-01, the permittee shall obtain a final permit to install prior to the change.