Ohio Environmental Protection Agency
John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

Certified Mail

4/20/2011

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
No	FEDERALLY ENFORCABLE PTIO (FEPTIO)

Mr. Scott Myers
Johns Manville-Milan Plant
717 Seventeenth Street
Denver, CO 80217

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
Facility ID: 0322002004
Permit Number: P0107737
Permit Type: Initial Installation
County: Erie

Dear Permit Holder:

Enclosed please find a final Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of $70.00, made payable to “Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General’s Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions, please contact Ohio EPA DAPC, Northwest District Office at (419)352-8461or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. This permit can be accessed electronically on the DAPCWeb page,www.epa.ohio.gov/dapc, by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-NWDO

Ohio | Environmental Protection Agency

FINAL

Division of Air Pollution Control
Permit-to-Install and Operate
for
Johns Manville-Milan Plant

Facility ID:	0322002004
Permit Number:	P0107737
Permit Type:	Initial Installation
Issued:	4/20/2011
Effective:	4/20/2011
Expiration:	4/20/2021

Ohio Environmental Protection Agency

Division of Air Pollution Control
Permit-to-Install and Operate
for
Johns Manville-Milan Plant

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Authorization

Facility ID: 0322002004
Application Number(s): A0041321
Permit Number: P0107737
Permit Description: ethylene propylene diamine monomer (EPDM) rubber roofing manufacturing line [raw material storage and transfer, mixing, extruding, calendering, pelletizing, curing, and bagging operations]
Permit Type: Initial Installation
Permit Fee: $2,250.00
Issue Date: 4/20/2011
Effective Date: 4/20/2011
Expiration Date: 4/20/2021
Permit Evaluation Report (PER) Annual Date: Apr 1 - Mar 31, Due May 15

This document constitutes issuance to:

Johns Manville-Milan Plant
49 Lockwood Rd
Milan, OH 44846

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Northwest District Office
347 North Dunbridge Road
Bowling Green, OH 43402
(419)352-8461

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s))listed in this section 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 described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director

Authorization (continued)

Permit Number: P0107737
Permit Description: ethylene propylene diamine monomer (EPDM) rubber roofing manufacturing line [raw material storage and transfer, mixing, extruding, calendering, pelletizing, curing, and bagging operations]

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	**P001**
Company Equipment ID:	SS1; M1; E1
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P002**
Company Equipment ID:	C1; E2
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable
Emissions Unit ID:	**P003**
Company Equipment ID:	D1; A1
Superseded Permit Number:	
General Permit Category and Type:	Not Applicable

A. Standard Terms and Conditions

1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

  You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement.Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a

renewal notice to you approximately six months prior to the expiration date of this permit. However, it is very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is takenby Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Northwest District Office in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting[1] a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emissions unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

[1]Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.

B. Facility-Wide Terms and Conditions

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

   a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

      (1) None.

   b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

      (1) None.

C. Emissions Unit Terms and Conditions

1. P001, SS1; M1; E1

Operations, Property and/or Equipment Description:

EPDM Rubber Roofing Line: batch preparation (SS1), mixing (M1 – 2 mixers), and extrudingand pelletizing (E1)

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(F)	0.03 pound particulate matter of 10 microns or less in size (PM_{10})/hour and 0.13 ton PM_{10}/year (Baghouse M1) There shall be no visible particulate emissions (PE) from the stack serving Baghouse M1. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3), effective 11/30/2001	0.22 pound volatile organic compounds (VOC)/hour and 0.96 ton VOC/year See b)(2)b. and b)(2)c.
c.	OAC rule 3745-31-05(A)(3), effective 12/1/2006	See b)(2)d.
d.	OAC rule 3745-17-11(B)	See b)(2)e.
e.	OAC rule 3745-17-07(A)	See b)(2)f.

(2) Additional Terms and Conditions

a. This permit establishes the following legally and practically enforceable emission limitations for the purpose of limiting potential to emit (PTE). The legally and practically enforceable emission limitations are voluntary restrictions established under OAC rule 3745-31-05(F) and are based on the operational restrictions contained in c)(1) which require control equipment:

i. The particulate emission rates from Baghouse M1 which controls the batch preparation and mixing operations associated with this emissions unit shall be limited to 0.03 pound PM_{10}/hour and 0.13 ton PM_{10}/year.

ii. There shall be no visible PE from the stack serving Baghouse M1.

All emissions of particulate matter from Baghouse M1 are PM_{10}.

b. The particulate emissions from the main extruder associated with this emissions unit are controlled by Baghouse E1; however, the emissions prior to control are negligible. Therefore, no emission limitation has been established in this permit and the use of BaghouseE1 has not been established as a BAT requirement.

The uncontrolled potential to emit of PE is $1.22E^{-4}$ pound/hour and $5.34E^{-4}$ ton/year, ascalculated using the following equation:

$$\frac{1.513E^{-8}\text{lb } PM_{10}^{(1)}}{\text{lb rubber extruded}} \times \frac{\text{lbs rubber extruded}^{(2)}}{\text{hour}}$$

(1)AP-42 Chapter 4.12 (Draft 11/08) emission factor for mixing compound #9.

(2)Maximum hourly production rate supplied by the company in the permit application.

c. Best Available Technology (BAT) requirements for this emissions unit have been determined to be compliance with emission limitations contained in b)(1)b. and compliance with the voluntary restrictions established in accordance with OAC rule 3745-31-05(F) [see b)(2)a.].

The voluntary restrictions were intentionally established to be consistent with the BAT requirements under OAC rule 3745-31-05(A)(3), as effective November 30, 2001, for two specific purposes as indicated below:

i. BAT requirements under OAC rule 3745-31-05(A)(3), as effective 11/30/01 would be fulfilled by compliance with the voluntary restrictions;

ii. The emissions unit will avoid any BAT requirements under OAC rule 3745-31-05(A)(3), as effective 12/01/06 [see b)(2)d.].

The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05

was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

It should be noted that the requirements established pursuant to OAC rule 3745-31-05(F) will remain applicable after the above SIP revisions are approved by U.S. EPA.

d. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3)(a) do not apply to the VOC and PM_{10} emissions from this air contaminant source since:

i. the uncontrolled PTE of VOC is less than 10 tons per year; and

ii. the controlled PTE of PM_{10} is less than 10 tons per year, taking into consideration practically and legally enforceable voluntary restrictions established under OAC rule 3745-31-05(F) in this permit.

e. The uncontrolled mass rate of emissions (UMRE) of PE from this emissions unit is less than 10 pounds/hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply.

f. This emissions unit is exempt from the visible emission limitation specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

c) Operational Restrictions

(1) The following operational restriction has been included in this permit for the purpose of establishing legally and practically enforceable requirements which limit PTE [see b)(2)a.]:

a. Baghouse M1 which controls the batch preparation and mixing operations shall be capable of achieving a particulate control efficiency of 99%.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the Baghouse M1 exhaust serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. the total duration of any visible emission incident; and

c. any corrective actions taken to eliminate the visible emissions.

e) Reporting Requirements

(1) Annual Permit Evaluation Report (PER)forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(1) above:

a. all visible emission checks during which any visible PE were observed from the Baghouse M1 exhaust serving this emissions unit; and

b. any corrective actions taken to eliminate the visible PE.

f) Testing Requirements

(1) Compliance with the emission limitations in section b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitation:</u>

0.22 pound VOC/hour

<u>Applicable Compliance Method:</u>

The hourly emission limitation was established based on the following calculation:

$1.470E^{-5}$lb VOC [1]	lbs rubber mixed [2]		1.240E-5 lb VOC [3]	lbs rubber extruded [2]
lb rubber mixed	hour	+	lb rubber extruded	hour

[1]AP-42 Chapter 4.12 (Draft 11/08) emission factor for mixing compound #8.

[2]Maximum hourly production rates supplied by the company in the permit application.

[3]AP-42 Chapter 4.12 (Draft 11/08) emission factor for extruding compound #9.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4 and 18, 25, or 25A of 40 CFR Part 60, Appendix A. Alternative

U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.

b. Emission Limitation:

0.96 ton VOC/year

Applicable Compliance Method:

The annual limitation was established by multiplying the hourly limitation by the maximum operating schedule of 8,760 hours/year and then dividing by 2,000 pounds/ton. Therefore, provided compliance is demonstrated with the hourly limitation, compliance with the annual limitation shall also be demonstrated.

c. Emission Limitation:

0.03 pound PM_{10}/hour

Applicable Compliance Method:

The hourly emission limitation was established by summing the PM_{10} emissions from batch preparation and mixing, as provided in the following calculations:

i. Batch Preparation:

0.0043 lb PM_{10} [(1)]	lbs material [(2)]	1.1 [(3)]
1000 lbs material	hour	

[(1)]AP-42 Chapter 11.26 (11/95) emission factor for talc screening controlled by a fabric filter.

[(2)]Maximum hourly production rate supplied by the company in the permit application.

[(3)]Applied 10% safety factor.

ii. Mixing:

$2.220E^{-4}$lb PM_{10} [(1)]	lbs rubber mixed [(2)]	1-0.99 [(3)]	1.1 [(4)]
lb rubber mixed	hour		

[(1)]AP-42 Chapter 4.12 (Draft 11/08) emission factor for mixing compound #8.

[(2)]Maximum hourly production rate supplied by the company in the permit application.

[(3)]Applied 99% control efficiency for the use of a baghouse.

[(4)]Applied 10% safety factor.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4 of 40 CFR Part 60, Appendix A and Methods 201/201A and 202 of 40 CFR Part 51, Appendix M. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.

d. Emission Limitation:

0.13 ton PM_{10}/year

Applicable Compliance Method:

The annual limitation was established by multiplying the hourly limitation by the maximum operating schedule of 8,760 hours/year and then dividing by 2,000 pounds/ton. Therefore, provided compliance is demonstrated with the hourly limitation, compliance with the annual limitation shall also be demonstrated.

e. Emission Limitation:

There shall be no visible particulate emissions from the Baghouse M1 exhaust.

Applicable Compliance Method:

If required, compliance with the visible PE limitations listed above shall be determined through visible emission observations performed in accordance with U.S. EPA Method 22.

g) Miscellaneous Requirements

(1) None.

2. P002, C1; E2

Operations, Property and/or Equipment Description:

EPDM Rubber Roofing Line: calendaring (C1) and extrusion (E2) line (2 calendars and 2 extruders)

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), effective 11/30/2001	0.55 pound volatile organic compounds (VOC)/hour and 2.41 tons VOC/year See b)(2)a. and b)(2)b.
b.	OAC rule 3745-31-05(A)(3), effective 12/1/2006	See b)(2)c.
c.	OAC rule 3745-17-11(B)	See b)(2)d.
d.	OAC rule 3745-17-07(A)	See b)(2)e.

(1) Additional Terms and Conditions

a. The particulate emissions (PE) generated from the extruders associated with this emissions unit are negligible. Therefore, no emission limitation has been established in this permit.

The uncontrolled potential to emit (PTE) of PE is $1.22E^{-4}$ pound/hour and $5.34E^{-4}$ ton/year, as calculated using the following equation:

$1.513E^{-8}$lb PM_{10}[(1)]	lbs rubber extruded[(2)]
lb rubber extruded	hour

[(1)]AP-42 Chapter 4.12 (Draft 11/08) emission factor for mixing compound #9.

[(2)]Maximum hourly production rate supplied by the company in the permit application.

b. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC rule 3745-31-05(A)(3), as effective November 30, 2001, in this permit for VOC.

On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 Changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

Until this rule revision is approved by the U.S. EPA, BAT requirements have been determined to be compliance with the emission limitations contained in b)(1)a.

c. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3)(a) do not apply to the VOC emissions from this air contaminant source because theuncontrolled potential to emit of VOC is less than 10 tons per year.

d. The uncontrolled mass rate of emissions (UMRE) of PE from this emissions unit is less than 10 pounds/hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply.

e. This emissions unit is exempt from the visible emission limitation specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) Annual Permit Evaluation Report (PER)forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

0.55 pound VOC/hour

Applicable Compliance Method:

The hourly emission limitation was established based on the following calculation:

$5.587E^{-5}$lb VOC [1]	lbs rubber calendared[2]		1.240E-5 lb VOC [3]	lbs rubber extruded [2]
lb rubber calendared	hour	+	lb rubber extruded	hour

[1]AP-42 Chapter 4.12 (Draft 11/08) emission factor for calendaring compound #2.

[2]Maximum hourly production rates supplied by the company in the permit application.

[3]AP-42 Chapter 4.12 (Draft 11/08) emission factor for extruding compound #9.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4 and 18, 25, or 25A of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.

b. Emission Limitation:

2.41 tons VOC/year

Applicable Compliance Method:

The annual limitation was established by multiplying the hourly limitation by the maximum operating schedule of 8,760 hours/year and then dividing by 2,000

pounds/ton. Therefore, provided compliance is demonstrated with the hourly limitation, compliance with the annual limitation shall also be demonstrated.

g) Miscellaneous Requirements

(1) None.

3. P003, D1; A1

Operations, Property and/or Equipment Description:

EPDM Rubber Roofing Line: sheet fabrication, including dusting (D1), curing (A1 – 2 autoclaves), winding, and bagging operations

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(F)	0.001 pound particulate matter of 10 microns or less in size (PM_{10})/hour and 0.004 ton PM_{10}/year (Baghouse D1) There shall be no visible particulate emissions (PE) from the stack serving Baghouse D1. See b)(2)a.
b.	OAC rule 3745-31-05(A)(3), effective 11/30/2001	0.54 pound volatile organic compounds (VOC)/hour and 2.37 tons VOC/year See b)(2)b.
c.	OAC rule 3745-31-05(A)(3), effective 12/1/2006	See b)(2)c.
d.	OAC rule 3745-17-11(B)	See b)(2)d.
e.	OAC rule 3745-17-07(A)	See b)(2)e.

(1) Additional Terms and Conditions

a. This permit establishes the following legally and practically enforceable emission limitations for the purpose of limiting potential to emit (PTE). The legally and practically enforceable emission limitations are voluntary restrictions established under OAC rule 3745-31-05(F) and are based on the operational restrictions contained in c)(1) which require control equipment:

i. The particulate emission rates from Baghouse D1 which controls the narrow and wide talc dusting operations associated with this emissions unit shall be limited to 0.001 pound PM_{10}/hour and 0.004 ton PM_{10}/year.

ii. There shall be no visible PE from the stack serving Baghouse D1.

All emissions of particulate matter from Baghouse D1 are PM_{10}.

b. Best Available Technology (BAT) requirements for this emissions unit have been determined to be compliance with emission limitations contained in b)(1)b. and compliance with the voluntary restrictions established in accordance with OAC rule 3745-31-05(F) [see b)(2)a.].

The voluntary restrictions were intentionally established to be consistent with the BAT requirements under OAC rule 3745-31-05(A)(3), as effective November 30, 2001, for two specific purposes as indicated below:

i. BAT requirements under OAC rule 3745-31-05(A)(3), as effective 11/30/01 would be fulfilled by compliance with the voluntary restrictions;

ii. The emissions unit will avoid any BAT requirements under OAC rule 3745-31-05(A)(3), as effective 12/01/06 [see b)(2)c.].

The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B. 265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, then these emission limits/control measures no longer apply.

It should be noted that the requirements established pursuant to OAC rule 3745-31-05(F) will remain applicable after the above SIP revisions are approved by U.S. EPA.

c. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3)(a) do not apply to the VOC and PM_{10} emissions from this air contaminant source since:

i. the uncontrolled PTE of VOC is less than 10 tons per year; and

ii. the controlled PTE of PM_{10} is less than 10 tons per year, taking into consideration practically and legally enforceable voluntary restrictions established under OAC rule 3745-31-05(F) in this permit.

d. The uncontrolled mass rate of emissions (UMRE) of PE from this emissions unit is less than 10 pounds/hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply.

e. This emissions unit is exempt from the visible emission limitation specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.

c) Operational Restrictions

(1) The following operational restriction has been included in this permit for the purpose of establishing legally and practically enforceable requirements which limit PTE [see b)(2)a.]:

a. Baghouse D1 which controls the narrow and wide talc dusting operations shall be capable of achieving a particulate control efficiency of 99%.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the BaghouseD1 exhaust serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

a. the color of the emissions;

b. the total duration of any visible emission incident; and

c. any corrective actions taken to eliminate the visible emissions.

e) Reporting Requirements

(1) Annual Permit Evaluation Report (PER)forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.

The permittee shall identify the following information in the annual permit evaluation report in accordance with the monitoring requirements for visible emissions in term number d)(1) above:

a. all visible emission checks during which any visible PE were observed from the BaghouseD1 exhaust serving this emissions unit; and

b. any corrective actions taken to eliminate the visible PE.

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

0.54 pound VOC/hour

Applicable Compliance Method:

The hourly emission limitation was established based on the following calculation:

$$\frac{6.647E\text{-}5 \text{ lb VOC}^{(1)}}{\text{lb rubber autoclaved}} \times \frac{\text{lbs rubber autoclaved}^{(2)}}{\text{hour}}$$

(1)AP-42 Chapter 4.12 (Draft 11/08) emission factor for curing/autoclaving compound #8.

(2)Maximum hourly production rates supplied by the company in the permit application.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4 and 18, 25, or 25A of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.

b. Emission Limitation:

2.37 tons VOC/year

Applicable Compliance Method:

The annual limitation was established by multiplying the hourly limitation by the maximum operating schedule of 8,760 hours/year and then dividing by 2,000 pounds/ton. Therefore, provided compliance is demonstrated with the hourly limitation, compliance with the annual limitation shall also be demonstrated.

c. Emission Limitation:

0.001 pound PM_{10}/hour

Applicable Compliance Method:

The hourly emission limitation was established based on the following calculation:

0.0043 lb PM_{10}[(1)]	lbstalc[(2)]	1.1 [(3)]
1000 lbstalc	hour	

[(1)]AP-42 Chapter 11.26 (11/95) emission factor for talc screening controlled by a fabric filter.

[(2)]Maximum hourly production rate supplied by the company in the permit application.

[(3)]Applied 10% safety factor.

If required, the permittee shall demonstrate compliance by testing in accordance with Methods 1-4 of 40 CFR Part 60, Appendix A and Methods 201/201A and 202 of 40 CFR Part 51, Appendix M. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA, Northwest District Office.

d. Emission Limitation:

0.004 ton PM_{10}/year

Applicable Compliance Method:

The annual limitation was established by multiplying the hourly limitation by the maximum operating schedule of 8,760 hours/year and then dividing by 2,000 pounds/ton. Therefore, provided compliance is demonstrated with the hourly limitation, compliance with the annual limitation shall also be demonstrated.

e. Emission Limitation:

There shall be no visible particulate emissions from the BaghouseD1 exhaust.

Applicable Compliance Method:

If required, compliance with the visible PE limitations listed above shall be determined through visible emission observations performed in accordance with U.S. EPA Method 22.

g) Miscellaneous Requirements

(1) None.