

*Imperial Foam & Insulation
Manufacturing Co., Inc.*



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LETTER OF ANALYSIS

IMPERIAL FOAM & INSULATION
2360 OLD TOMOKA ROAD
ORMOND BEACH, FL 32174
USA

Product Name: **M444D**
Lot number: **1014071**
Sales order number: **2033**
Ship Date: **March 24, 2011**

Test	Results	Specification
Pentane	4.7 %	5.0 % Max


Albert Mailloux
Quality Assurance

Note: The information in this letter of analysis is believed to be accurate and reliable as of the date issued.

24 rue Bellevue St. • CP / PO Box 240 • Mansonville, QC J0E 1X0
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2360 OLD TOMOKA ROAD
ORMOND BEACH, FL 32174
USA

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Lot number: **1033071**
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Test	Results	Specification
Pentane	6.5 %	5.9 % to 6.9 %


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Imperial Foam & Insulation Manufacturing Co., Inc.
 Ormond Beach, Volusia County, Florida
 Insulation Manufacturing Operation

Facility ID 1270090

April 2011 Usage and VOC Emissions

Product	Usage lbs/yr	VOC Fraction	VOC Emitted tons/month
BASF	10560	0.0606	0.3
BASF (LOW PENTANE)		0.05	0.0
Kumho		0.065	0.0
Taita		0.068	0.0
Nexkernia	66150	0.07	2.3
Nexkernia (Low Pentane)	13230	0.05	0.3
Styrochem		0.068	0.0
Starex		0.0576	0.0
Starex (Low Pentane)		0.0432	0.0
LG		0.065	0.0
Dongbu		0.06	0.0
King Pearl		0.07	0.0
Nova	73835	0.066	2.4
Nova (Low Pentane)	6300	0.046	0.1
Total	170075	---	5.5

December 2010 Summary

Item Description	12-Month Rolling (tons/yr)
Expandable Polystyrene Bead Usage	971.6
VOC Emissions	62.9

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March 2011 Usage and VOC Emissions

Product	Usage lbs/yr	VOC Fraction	VOC Emitted tons/month
BASF		0.0606	0.0
BASF (LOW PENTANE)		0.05	0.0
Kumho		0.065	0.0
Taita		0.068	0.0
Nexkemia	110250	0.07	3.9
Nexkemia (Low Pentane)	13230	0.05	0.3
Styrochem		0.068	0.0
Starex		0.0576	0.0
Starex (Low Pentane)		0.0432	0.0
LG		0.065	0.0
Dongbu		0.06	0.0
King Pearl		0.07	0.0
Nova	62120	0.066	2.0
Nova (Low Pentane)	12600	0.046	0.3
Total	198200	---	6.5

December 2010 Summary

Item Description	12-Month Rolling (tons/yr)
Expandable Polystyrene Bead Usage	1032.8
VOC Emissions	66.2

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February 2011 Usage and VOC Emissions

Product	Usage lbs/yr	VOC Fraction	VOC Emitted tons/month
BASF		0.0606	0.0
BASF (LOW PENTANE)		0.05	0.0
Kumho		0.065	0.0
Taita		0.068	0.0
Nexkemia	52890	0.07	1.9
Nexkemia (Low Pentane)	4410	0.05	0.1
Styrochem		0.068	0.0
Starex		0.0576	0.0
Starex (Low Pentane)		0.0432	0.0
LG		0.065	0.0
Dongbu		0.06	0.0
King Pearl		0.07	0.0
Nova	44100	0.066	1.5
Nova (Low Pentane)	8700	0.046	0.2
Total	110100	---	3.6

December 2010 Summary

Item Description	12-Month Rolling (tons/yr)
Expandable Polystyrene Bead Usage	1022.5
VOC Emissions	65.0

Imperial Foam & Insulation Manufacturing Co., Inc.
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January 2011 Usage and VOC Emissions

Product	Usage lbs/yr	VOC Fraction	VOC Emitted tons/month
BASF		0.0606	0.0
BASF (LOW PENTANE)		0.05	0.0
Kumho		0.065	0.0
Taita		0.068	0.0
Nexkemia	72765	0.07	2.5
Nexkemia (Low Pentane)	17640	0.05	0.4
Styrochem		0.068	0.0
Starex		0.0576	0.0
Starex (Low Pentane)		0.0432	0.0
LG		0.065	0.0
Dongbu		0.06	0.0
King Pearl		0.07	0.0
Nova	46200	0.066	1.5
Nova (Low Pentane)	6300	0.046	0.1
Total	142905	---	4.7

December 2010 Summary

Item Description	12-Month Rolling (tons/yr)
Expandable Polystyrene Bead Usage	1028.0
VOC Emissions	64.9

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December 2010 Usage and VOC Emissions

Product	Usage lbs/yr	VOC Fraction	VOC Emitted tons/month
BASF		0.0606	0.0
BASF (LOW PENTANE)		0.05	0.0
Kumho		0.065	0.0
Taita		0.068	0.0
Nexkemia	33075	0.07	1.2
Styrochem		0.068	0.0
Starex		0.0576	0.0
Starex (Low Pentane)		0.0432	0.0
LG		0.065	0.0
Dongbu		0.06	0.0
King Pearl		0.07	0.0
Nova	88200	0.066	2.9
Nova (Low Pentane)		0.046	0.0
Total	121275	---	4.1

December 2010 Summary

Item Description	12-Month Rolling (tons/yr)
Expandable Polystyrene Bead Usage	956.6
VOC Emissions	63.3

Imperial Foam & Insulation Manufacturing Co., Inc.
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November 2010 Usage and VOC Emissions

Product	Usage lbs/yr	VOC Fraction	VOC Emitted tons/month
BASF	7040	0.0606	0.2
BASF (LOW PENTANE)		0.05	0.0
Kumho		0.065	0.0
Taita		0.068	0.0
Nexkemia	35280	0.07	1.2
Styrochem		0.068	0.0
Starex		0.0576	0.0
Starex (Low Pentane)		0.0432	0.0
LG		0.065	0.0
Dongbu		0.06	0.0
King Pearl		0.07	0.0
Nova	86100	0.066	2.8
Nova (Low Pentane)	18900	0.046	0.4
Total	147320	---	4.7

November 2010 Summary

Item Description	12-Month Rolling (tons/yr)
Expandable Polystyrene Bead Usage	1010.3
VOC Emissions	63.1

Imperial Foam & Insulation Manufacturing Co., Inc.
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October 2010 Usage and VOC Emissions

Product	Usage lbs/yr	VOC Fraction	VOC Emitted tons/month
BASF	84480	0.0606	2.6
BASF (LOW PENTANE)		0.05	0.0
Kumho		0.065	0.0
Taita		0.068	0.0
Nexkemia		0.07	0.0
Styrochem		0.068	0.0
Starex		0.0576	0.0
Starex (Low Pentane)		0.0432	0.0
LG		0.065	0.0
Dongbu		0.06	0.0
King Pearl		0.07	0.0
Nova	81900	0.066	2.7
Nova (Low Pentane)	10500	0.046	0.2
Total	176880	---	5.5

October 2010 Summary

Item Description	12-Month Rolling (tons/yr)
Expandable Polystyrene Bead Usage	1009.9
VOC Emissions	63.2

Imperial Foam & Insulation Manufacturing Co., Inc.
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September 2010 Usage and VOC Emissions

Product	Usage lbs/yr	VOC Fraction	VOC Emitted tons/month
BASF	36960	0.0606	1.1
BASF (LOW PENTANE)		0.05	0.0
Kumho		0.065	0.0
Taita	17640	0.068	0.6
Nexkemia	28665	0.07	1.0
Styrochem		0.068	0.0
Starex		0.0576	0.0
Starex (Low Pentane)		0.0432	0.0
LG		0.065	0.0
Dongbu		0.06	0.0
King Pearl		0.07	0.0
Nova	57015	0.066	1.9
Nova (Low Pentane)	12915	0.046	0.3
Total	153195	---	4.9

September 2010 Summary

Item Description	12-Month Rolling (tons/yr)
Expandable Polystyrene Bead Usage	1012.2
VOC Emissions	63.8

Imperial Foam & Insulation Manufacturing Co., Inc.
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August 2010 Usage and VOC Emissions

Product	Usage lbs/yr	VOC Fraction	VOC Emitted tons/month
BASF	34904	0.0606	1.1
BASF (LOW PENTANE)		0.05	0.0
Kumho		0.065	0.0
Taita	24255	0.068	0.8
Nexkemia	8820	0.07	0.3
Styrochem		0.068	0.0
Starex		0.0576	0.0
Starex (Low Pentane)		0.0432	0.0
LG		0.065	0.0
Dongbu		0.06	0.0
King Pearl		0.07	0.0
Nova	63430	0.066	2.1
Nova (Low Pentane)	12600	0.046	0.3
Total	144009	---	4.6

August 2010 Summary

Item Description	12-Month Rolling (tons/yr)
Expandable Polystyrene Bead Usage	1020.9
VOC Emissions	64.4

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July 2010 Usage and VOC Emissions

Product	Usage lbs/yr	VOC Fraction	VOC Emitted tons/month
BASF	13225	0.0606	0.4
BASF (LOW PENTANE)		0.05	0.0
Kumho		0.065	0.0
Taita		0.068	0.0
Nexkemia	35280	0.07	1.2
Styrochem		0.068	0.0
Starex	28160	0.0576	0.8
Starex (Low Pentane)		0.0432	0.0
LG		0.065	0.0
Dongbu		0.06	0.0
King Pearl		0.07	0.0
Nova	99435	0.066	3.3
Nova (Low Pentane)		0.046	0.0
Total	176100	---	5.7

July 2010 Summary

Item Description	12-Month Rolling (tons/yr)
Expandable Polystyrene Bead Usage	1043.4
VOC Emissions	65.9

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June 2010 Usage and VOC Emissions

Product	Usage lbs/yr	VOC Fraction	VOC Emitted tons/month
BASF	25105	0.0606	0.8
BASF (LOW PENTANE)		0.05	0.0
Kumho		0.065	0.0
Taita		0.068	0.0
Nexkemia	33075	0.07	1.2
Styrochem		0.068	0.0
Starex		0.0576	0.0
Starex (Low Pentane)		0.0432	0.0
LG		0.065	0.0
Dongbu		0.06	0.0
King Pearl		0.07	0.0
Nova	130000	0.066	4.3
Nova (Low Pentane)		0.046	0.0
Total	188180	---	6.2

June 2010 Summary

Item Description	12-Month Rolling (tons/yr)
Expandable Polystyrene Bead Usage	1029.7
VOC Emissions	64.9

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May 2010 Usage and VOC Emissions

Product	Usage lbs/yr	VOC Fraction	VOC Emitted tons/month
BASF	123300	0.0606	3.7
BASF (LOW PENTANE)		0.05	0.0
Kumho		0.065	0.0
Taita		0.068	0.0
Nexkemia	15435	0.07	0.5
Styrochem		0.068	0.0
Starex		0.0576	0.0
Starex (Low Pentane)		0.0432	0.0
LG		0.065	0.0
Dongbu		0.06	0.0
King Pearl		0.07	0.0
Nova	76225	0.066	2.5
Nova (Low Pentane)		0.046	0.0
Total	214960	---	6.8

May 2010 Summary

Item Description	12-Month Rolling (tons/yr)
Expandable Polystyrene Bead Usage	1033.7
VOC Emissions	64.8

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April 2010 Usage and VOC Emissions

Product	Usage lbs/yr	VOC Fraction	VOC Emitted tons/month
BASF	171365	0.0606	5.2
BASF (LOW PENTANE)	19845	0.05	0.5
Kumho		0.065	0.0
Taita		0.068	0.0
Nexkemia	37485	0.07	1.3
Styrochem		0.068	0.0
Starex		0.0576	0.0
Starex (Low Pentane)	8800	0.0432	0.2
LG		0.065	0.0
Dongbu		0.06	0.0
King Pearl		0.07	0.0
Nova	42370	0.066	1.4
Nova (Low Pentane)	12705	0.046	0.3
Total	292570	---	8.9

April 2010 Summary

Item Description	12-Month Rolling (tons/yr)
Expandable Polystyrene Bead Usage	972.8
VOC Emissions	63.9