

Permit Number: PP3238LX

Operator: Bakelite Synthetics UK Limited

Facility: Barry Thermosets Plant

Form Number: Energy1 / 13/02/2023

Reporting of Energy Usage for the year 2023

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	4530 MWh	10900	0.126
Natural Gas	9230 MWh	10600	0.257
Gas Oil	tonnes		
TOTAL	-		0.383

* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments :
35852 tonnes produced in 2023

Signed
(Authorised to sign as representative of Operator)

Date...25th January 2024.....

Permit Number: PP3238LX

Operator:

Bakelite Synthetics UK Limited

Facility: Barry Thermosets Plant

Form Number: Air1 / 13/02/2023

Reporting of emissions to air for the period from 01/01/2023 to 31/12/2023

Emission							
Emission Point	Substance / Parameter	Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
A1:B1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	180 mg/m ³ when firing on natural gas	Periodic	53.6	EN14792	05/09/2023	5.1
		220 mg/m ³ when firing on oil	Periodic	N/A			
	Carbon monoxide	140 mg/m ³	Periodic	3.5	EN15058	05/09/2023	2.1
A1:B2	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	180 mg/m ³ when firing on natural gas	Periodic	61.5	EN14972	05/09/2023	3.8
		220 mg/m ³ when firing on oil	Periodic	N/A			
	Carbon monoxide	140 mg/m ³	Periodic	8.4	EN15058	05/09/2023	1.4
A2	Phenol	10 mg/m ³	Periodic	<0.40	CEN/TS 13649	01/03/2023	0.04
				<0.16		17/05/2023	0.033
				<0.28		05/09/2023	0.063
				<0.29		29/11/2023	0.060
	Formaldehyde	2 mg/m ³	Periodic	0.011	CEN/TS 13649	01/03/2023	0.0014
<0.03				17/05/2023		0.002	
<0.031				05/09/2023		0.0018	
Styrene ^[5]	No limit set	Periodic	N/A		29/11/2023	0.026	

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

[5] Monitoring of styrene required when styrene is in use at the installation

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Date...25th January 2024.....

Permit Number: PP3238LX

Operator: Bakelite Synthetics UK Limited


Facility: Barry Thermosets Plant

Form Number: Performance1 / 13/02/2023

Reporting of other performance indicators for the period 01/01/2023 to 31/12/2023

Parameter	Units
Water usage / tonne product	2.40 m ³ /tonne
Energy usage / tonne product	0.383 MWh/tonne

Operator's comments :
35852 tonnes produced in 2023

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Date.....25th January 2024.....

Permit Number: PP3238LX

Operator: Bakelite Synthetics UK Limited

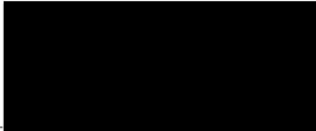
Facility: Barry Thermosets Plant

Form Number: WaterUsage1 / 13/02/2023

Reporting of Water Usage for the year 2023

Water Source	Usage (m ³ /year)	Specific Usage (m ³ /unit output)
Towns water	11400	0.318
Biglis	74500	2.08
		2.40
TOTAL WATER USAGE	85900	

Operator's comments :

Signed 
(authorised to sign as representative of Operator)

Date.....25th January 2024.....