

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 01/01/2024 to 31/12/2024**

Emission Point	Substance / Parameter	Emission		Reference Period	Result <sup>[1]</sup>	Test Method <sup>[2]</sup>	Sample Date and Times <sup>[3]</sup>	Uncertainty <sup>[4]</sup>
		Limit Value						
A1:B1	Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	180 mg/m <sup>3</sup> when firing on natural gas	Periodic	106	EN14792	12/07/2024	6.4	
		220 mg/m <sup>3</sup> when firing on oil	Periodic	N/A				
	Carbon monoxide	140 mg/m <sup>3</sup>	Periodic	0.75	EN15058	12/07/2024	1.9	
A1:B2	Oxides of nitrogen (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	180 mg/m <sup>3</sup> when firing on natural gas	Periodic	51.6	EN14972	12/07/2024	6.5	
		220 mg/m <sup>3</sup> when firing on oil	Periodic	N/A				
	Carbon monoxide	140 mg/m <sup>3</sup>	Periodic	8.0	EN15058	12/07/2024	4.5	
A2	Phenol	10 mg/m <sup>3</sup>	Periodic	<0.32	CEN/TS 13649	02/02/2024	0.07	
				<0.32		26/04/2024	0.033	
				<0.32		12/07/2024	0.067	
				<0.34		21/11/2024	0.070	
	Formaldehyde	2 mg/m <sup>3</sup>	Periodic	<0.12	CEN/TS 13649	02/02/2024	2	
				0.06		26/04/2024	0.004	
Styrene <sup>[5]</sup>	No limit set	Periodic	1.5		12/07/2024	0.09		
			<0.050		21/11/2024	0.003		
				N/A				

- [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

Signed ..



Date... 28<sup>th</sup> January 2025.....

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 2024

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	4590 MWh	11000	0.114
Natural Gas	9760 MWh		0.243
Gas Oil	315 MWh		0.008
TOTAL	-		0.365

\* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments :  
40196 tonnes produced in 2024  
30000 L bio diesel / gas oil in mobile generator

Signed .....  ..... Date...28<sup>th</sup> January 2025.....  
(Authorised to sign as representative of Operator)

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 01/01/2024 to 31/12/2024**

Parameter	Units
Water usage / tonne product	1.81 m <sup>3</sup> /tonne
Energy usage / tonne product	0.365 MWh/tonne

Operator's comments :  
40196 tonnes produced in 2024

Signed .......... Date.....28<sup>th</sup> January 2025.....  
(Authorised to sign as representative of Operator)

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 2024

Water Source	Usage (m <sup>3</sup> /year)	Specific Usage (m <sup>3</sup> /unit output)
Towns water	41200	1.02
Biglis	31500	0.784
		1.81
<b>TOTAL WATER USAGE</b>	<b>72700</b>	

Operator's comments :  
40196 tonnes produced in 2024

Signed 

(authorised to sign as representative of Operator)

Date.....28<sup>th</sup> January 2025.....