

Our Ref: SW/LS

19 January 2022

Report 385637

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DATE RECEIVED	:	07 JANUARY 2022
DATE TESTED	:	19 JANUARY 2022
QUALITY REFERENCE	:	NAUTILUS
REPUTED FIBRE CONTENT	:	100% RECYCLED POLYESTER
COLOUR / DESIGN	:	YELLOW
FABRIC DESCRIPTION	:	WOVEN
END USE	:	UPHOLSTERY

REQUEST: BSEN1021-1: 2014 (smouldering cigarette)
BSEN1021-2: 2014 (match flame equivalent)

RESULT: The sample tested meets the flammability performance requirements of BS EN 1021-1:2014 and BS EN 1021-2:2014



S. WISEMAN
LABORATORY DIRECTOR



L. SMITH
QUALITY COORDINATOR

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**BS EN 1021-1/2:2014 Furniture - Assessment of the ignitability of upholstered furniture –
Part 1 Ignition Source: Smouldering cigarette.
Part 2 Ignition Source: Match flame equivalent.**

Pre-treatment:

The sample was stated by the client to have not been treated with a chemical FR treatment and therefore was tested in the 'as received' condition.

Conditioning

Following any pre-treatment given and prior to testing, the sample was conditioned for 24 hours in an atmosphere having a temperature of $23 \pm 2^{\circ}\text{C}$ and a relative humidity of $50 \pm 5\%$.

Procedure

The specimens were mounted over fillings of combustion modified high resilience foam with a density of approximately $35\text{-}36 \text{ Kg/m}^3$.

Results

The following test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

<u>Ignition Source</u>	<u>Ignitability Performance</u>
0	NI (Non-ignition)
0	NI (Non-ignition)
1	NI (Non-ignition)
1	NI (Non-ignition)
1	NI (Non-ignition)

	Cigarette			Match-equivalent flame		
	1	2	3	1	2	3
Smouldering Criteria (Yes/No)						
Unsafe escalating combustion	No	No	/	No	No	No
Test assembly consumed	No	No	/	No	No	No
Smoulders to extremities	No	No	/	No	No	No
Smoulders through thickness	No	No	/	No	No	No
Smoulders more than 1 hour	No	No	/	No	No	No
More than 100mm from source	No	No	/	No	No	No
Flaming Criteria (Yes/No)						
Duration of flames (s)	N/A	N/A	/	106	75	88
Unsafe escalating combustion	No	No	/	No	No	No
Test assembly consumed	No	No	/	No	No	No
Flames to extremities	No	No	/	No	No	No
Flames through thickness	No	No	/	No	No	No

Comments

The sample tested meets the flammability performance requirements of BS EN 1021-1:2014 and BS EN 1021-2:2014

Decision rules

The decision rule applicable to statements of conformity relating to the test(s) carried out is simple acceptance based on the measured test results not falling within a range either side of a specified limit that is equal to the uncertainty of measurement for the parameter measured (based on 95% confidence levels). In all other regards, the decision rule is based on simple acceptance predicated upon the conditions of testing falling within the criteria for test set out in the test method with a conformance probability of 95%. The risk of false accept or false reject is therefore not greater than 2.5%.

Uncertainty of measurement: Timings ±0.4s
Dimensions ±0.5mm

