



Safety Testing

VOC and Formaldehyde

Aside from performance, ensuring our underlays meet strict safety standards is paramount. As part of our commitment to this, we run testing of VOC and Formaldehyde emissions on our underlays. All testing is carried out by an independent company – the results of these tests are shown below. All of our Foam and Wool underlays passed these tests with flying colours!

Formaldehyde test summary

Testing	Results
Sample prep	28 x 28cm - wrapped in foil on back and sides
Sample area	0.0784 m ²
Chamber size	0.195 m ³
Air exchange (per hour)	0.5 H-1
Loading factor	0.4 m ² /m ³
Humidity	50%
Temperature	21°C
Adsorbent	DNPH silica gel
Air sampling flow	500 ml/min
Air sample volume	30 litres

Formaldehyde Results

Underlay Material	Time Interval (Days)	Formaldehyde (µg/m ³)
Foam	28	Not detected
Wool	28	Not detected

Limit of detection for formaldehyde is 2.0 (µg/m³)

VOC test summary

Testing	Results
Sample prep	28 x 28cm - wrapped in foil on back and sides
Sample area	0.0784 m ²
Chamber size	0.195 m ³
Air exchange (per hour)	0.5 H-1
Loading factor	0.4 m ² /m ³
Humidity	50%
Temperature	21°C
Adsorbent	Tenax TA (VOC)
Air sampling flow	100 ml/min (VOC)
Air sample volume	3 litres (VOC)

VOC Results

	LCI value ⁺¹	Emissions @ 28 days	R Value ⁺² @ 28 days
Cas No.	µg/m ³	µg/m ³	Unitless
Foam Underlay			
Carcinogenic compound as defined in Annex VI to Regulation (EC) No. 1272/2008	Not detected	Not detected	Not detected
TVOC	N/A	Not detected	Not detected
Wool Underlay			
Carcinogenic compound as defined in Annex VI to Regulation (EC) No. 1272/2008	Not detected	Not detected	Not detected
TVOC	N/A	Not detected	Not detected

Limit of quantification for VOC - 5 µg/m³ per component / Limit of detection for VOC - 1 µg/m³ per component
The following compounds were detected below the limit of quantification - Dodecane, tetramethylbutanedinitrile, nonanal, xylene

MANUFACTURER:
Wilson's Underlays Ltd. Dewsbury, WF13 3RD.

DISCLAIMER:
Although testing represents no detection of VOCs and Formaldehyde, due to the recycled nature of our underlays, we cannot guarantee these results. As such, the data on this sheet is meant for information purposes only. Users should conduct their own tests to determine the suitability of each material to its intended application.

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ThermalStream

PASSIONSTEP

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Wilson's Underlays
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Wilsons Underlays can manufacture any underlay according to your specified requirements. For example, if a flame-retardant underlay is required for double-stick or EC Marine use, we can manufacture this as per your specification. Please ask a representative for more information.

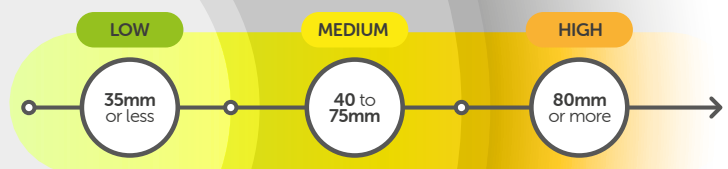
Flammability testing

Wilsons Underlays ensure that both extensive in house and external testing is carried out on our products we manufacture as well as testing to the BS4790:1987 standard. Where specified, our underlays are suitable for domestic and/or contract markets.

Technical specifications		
Flammability Testing	Result	Method
PU & Memory Foams	Low/Medium radius	BS4790:1987
Wool Blend	Low radius	BS4790:1987

What do the results mean?

The results were classified according to BS 5287:1988 (2014) 'Assessment and Labelling of Textile floorcoverings tested to BS 4790' The full descriptions of the classifications, abbreviated to **low**, **medium** or **high** in the table of results, are as follows:



LOW radius of effects of ignition (up to 35mm) / **MEDIUM** radius of effects of ignition (40 to 75mm) / **HIGH** radius of effects of ignition (80mm or over)

MANUFACTURER:

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DISCLAIMER:

The test results relate only to the behaviour of the test specimens after application of a small source of ignition; they shall not be used as a means of assessing how the product will contribute to an established fire. Due to the recycled nature of our underlays, we cannot guarantee these results. As such, the data on the sheet is meant for information purposes only. Users should conduct their own tests to determine the suitability of each material to its intended application.

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