Low VOC and formaldehyde in our wool and foam underlays

Version 1.1 / Apr 2024

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 ($\mu g/m^3$)
Foam	28	Not detected
Wool	28	Not detected

Limit of detection for formaldehyde is 2.0 ($\mu g/m^3$)

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.	$\mu g/m^3$	$\mu g/m^3$	Unitless
Foam Underlay				
Carcinogenic compound as defined in Annex VI to Regulation (EC) No. 1272/2008	**Not detected**	**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**	**Not detected**
TVOC		N/A	**Not detected**	**Not detected**

Limit of quantification for VOC - 5 $\mu g/m^3$ per component / Limit of detection for VOC - 1 $\mu g/m^3$ per component
The following compounds were detected below the limit of quantification - Dodecane, tetramethylbutanedinitrile, nonanal, xylene

Manufactured by Wilsons Underlays Ltd, West Yorkshire, UK.
To view our full terms and conditions, visit **wilsons-underlays.co.uk/terms-conditions**.

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