

Declaration: 7.1 a) Latex foam: Restricted substances

to be completed by the Applicant / latex foam supplier or manufacturer

I the undersigned, the manufacturer of latex foam / intermediate supplier of latex foam / applicant (please delete as appropriate) hereby declare that the material supplied complies with the relevant chemical residue restrictions stated below and attach copies of relevant test reports.

Group of substances	Substance	Limit (ppm)	Test Method	Result (ppm)
Chlorophenols	mono- and di-chlorinated phenols (salts and esters)	1	5 g of sample shall be milled and chlorophenols extracted in the form of phenol (PCP), sodium salt (SPP) or esters. The extracts analysed by means of gas chromatography (GC). Detection shall be made with mass spectrometer or electron capture detector (ECD).	
	Other chlorophenols	0.1		
Heavy metal	As (Arsenic)	0.5	Milled sample material is eluted in accordance with DIN 38414-S4 or equivalent in a ratio of 1:10. The resultant filtrate shall be passed through a 0.45 µm membrane filter (if necessary by pressure filtration). The solution obtained shall be examined for the content of heavy metals by inductively coupled plasma optical emission spectrometry (ICP-OES), also known as inductively coupled plasma atomic emission spectrometry (ICP-AES), or by atomic absorption spectrometry using a hydride or cold vapour process	
	Cd (Cadmium)	0.1		
	Co (Cobalt)	0.5		
	Cr (Chromium), total	1		
	Cu (Copper)	2		
	Hg (Mercury)	0.02		
	Ni (Nickel)	1		
	Pb (Lead)	0.5		
Pesticides*	Sb (Antimony)	0.5	2 g of sample is extracted in an ultrasonic bath with a hexane/dichloromethane mixture (85/15). The extract is cleaned up by acetonitrile agitation or by adsorption chromatography over florisil. Measurement and quantification are determined by gas chromatography with detection on an electron capture detector or by coupled gas chromatography/mass spectrometry. The testing on pesticides is requested for latex foams with a content of at least 20% natural latex	
	Aldrin	0.04		
	o,p-DDE	0.04		
	p,p-DDE	0.04		
	o,p-DDD	0.04		
	p,p-DDD	0.04		
	o,p-DDT	0.04		
	p,p-DDT	0.04		
	Diazinone	0.04		
	Dichlorfenthion	0.04		
	Dichlorvos	0.04		
	Dieldrin	0.04		
	Endrin	0.04		
	Heptachlor	0.04		
	Heptachlorepoide	0.04		
	Hexachlorobenzene	0.04		
	Hexachlorocyclohexane	0.04		
	α-Hexachlorocyclohexane	0.04		
	β-Hexachlorocyclohexane	0.04		
	γ-Hexachlorocyclohexane (Lindane)	0.04		
	δ-Hexachlorocyclohexane	0.04		
	Malathion	0.04		
	Methoxychlor	0.04		
	Mirex	0.04		
	Parathion-ethyl	0.04		
	Parathion-methyl	0.04		
Other specific substances that are restricted	Butadiene	1	Following milling and weighing of the latex foam, headspace sampling shall be performed. Butadiene content shall be determined by gas chromatography with detection by flame ionisation.	

* Only for foams composed of natural latex for at least 20% by weight.

Declaration: 7.1 a) Latex foam: Restricted substances*to be completed by the Applicant / latex foam supplier or manufacturer*

Signature of person bearing legal responsibility	
Position held	
Company Name in CAPITALS:	
Date:	
Company Stamp:	

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Declaration: 7.1.b) Latex foam: 24h VOC emissions

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I the undersigned, the manufacturer of latex foam / intermediate supplier of latex foam / applicant (please delete as appropriate) hereby declare that the material supplied complies with the relevant chemical residue restrictions stated below and attach copies of relevant test reports.

Substance	Limit (mg/m³)	Test Methods	Result (mg/m³)
1,1,1 – trichloroethane	0.2	Chamber test analysis carried out by an accredited laboratory in accordance with ISO 16000-9. The wrapped sample shall be stored at room temperature at least for 24 hours. After this period the sample shall be unwrapped and immediately transferred into the test chamber. The sample shall be placed on a sample holder, which allows air access from all sides. The climatic factors shall be adjusted according to ISO 16000-9. For comparison of test results, the area specific ventilation rate (q=n/l) shall be 1. The ventilation rate shall be between 0.5 and 1. The air sampling shall be done 24±1 h after loading of the chamber during 1 hour on DNPH cartridges for the analysis of formaldehyde and other aldehydes and on Tenax TA for the analysis of other volatile organic compounds. Sampling duration for other compounds may be longer but shall be completed before 30 hours. The analysis of formaldehyde and other aldehydes shall comply with the standard ISO 16000-3. Unless specified differently, the analysis of other volatile organic compounds shall comply with the standard ISO 16000-6. Testing following the standard CEN/TS 16516 shall be considered as equivalent to those of the ISO 16000 series of standards. The analysis of nitrosamines shall be done by means of gas chromatography in combination with a thermal energy analysis detector (GC-TEA), in accordance with the BGI 505-23 method (formerly: ZH 1/120.23) or equivalent.	
4-Phenylcyclohexene	0.02		
Carbon Disulphide	0.02		
Formaldehyde	0.005		
Nitrosamines*	0.0005		
Styrene	0.01		
Tetrachloroethylene	0.15		
Toluene	0.1		
Trichlorethylene	0.05		
Vinyl chloride	0.0001		
Vinyl cyclohexene	0.002		
Aromatic hydrocarbons (total)	0.3		
VOCs (total)	0.5		
* N-nitrosodimethylamine (NDMA), N-nitrosodiethylamine (NDEA), N-nitrosomethylethylamine (NMEA), N-nitrosodi-i-propylamine (NDIPA), N-nitrosodi-n- propylamine (NDPA), N-nitrosodi-n-butylamine (NDBA), N-nitrosopyrrolidinone (NPYR), N-nitrosopiperidine (NPIP), N-nitrosomorpholine (NMOR).			
Signature of person bearing legal responsibility			
Position held			
Company Name in CAPITALS:			
Date:			
Company Stamp:			

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