



BUILDING PRODUCT DECLARATION

Formica ColorCore

1. Product information

Product

Product name:	Formica ColorCore High Pressure Laminate (HPL)	
Article:	<i>Formica ColorCore High Pressure Laminate BTS</i>	
Product description: <i>Document: Infiniti Product Data Sheet</i>	<p>The materials referred to are high pressure decorative laminates (Formica® Laminate) according to the European Standard EN 438 and to ISO 4586. Formica Laminates are sheets consisting of layers of cellulose fibrous material (normally paper) impregnated with thermosetting resins and bonded together in a high pressure process. The process, defined as a simultaneous application of heat ($\geq 120^{\circ}\text{C}$) and high specific pressure ($\geq 5\text{ MPa}$), provides flowing and subsequent curing of the thermosetting resins to obtain a homogeneous non-porous material ($\geq 1,35\text{ g/cm}^3$) with the required surface finish. Basically more than 60% of Formica Laminate consists of paper and the remaining 30-40% consists of cured phenol-formaldehyde resin for core layers and melamine-formaldehyde resin for the surface layer.</p> <p>Both resins belonging to the group of thermosetting resins are irreversibly interacted through cross linked chemical bonds formed during the curing process producing a non-reactive, stable material with characteristics which are totally different from those of its component parts.</p> <p>Formica Laminates are supplied in sheet form in a variety of sizes, thicknesses and surface finishes.</p> <p>Where improved fire retardance is required, the laminate core may be treated with an additive which does not contain halogens.</p>	
Type of product:	<input type="checkbox"/> Chemical product	<input checked="" type="checkbox"/> Article
Date of preparation/revision:	2017/03/01	

Supplier/Manufacturer

Supplier:	Formica Group / Formica Skandinavien AB	
Contact person:	Marie Clint	
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Supporting documentation

Has a declaration of performance, in line with the Swedish Construction Products Regulation, been prepared for the product?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No Not relevant for the product.
Is the article/product an electronic product and covered by the RoHS-directive (2011/65/EU)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

2. Declaration of contents:

Does the product or any of its subcomponents, if it is a composite product, contain substances with particularly hazardous properties (Substances of Very High Concern, SVHC-substances), which are included in the Candidate List at a concentration above 0.1 weight%?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
State the date for control against the Candidate List	Date: 2017/02/20	
The concentration is calculated at component level established on the principle "once a product, always a product". The Candidate List is available at: http://echa.europa.eu/sv/candidate-list-table .		

Table 1, Contents for applied products

Included substances and material	EG No./CAS No.	Weight% (of the applied product)	Comments (state any application of non-harmonized classifications)
Kraft paper, 100%		52%	
Décor paper, 100%		6.6%	
Laminate, melamine resin	9003-08-1	41.4%	

Nanomaterial

Does the product contain any nanomaterial that has been purposefully added to achieve a specific function?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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3. Recycled raw material

Does the product contain recycled material?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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If wood raw material is included

Can the product be ordered with sustainability certificates for the wood raw material? E.g.: FSC and PEFC	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
FSC certification type and number:	Chain of Custody (COC) No. TT-CW-003588 / TT-COC-003588	
Certifier:	BM Trada	
In August 2013, Formica Group introduced FSC® certified laminates manufactured in its European plants. FSC® certified laminates are now available as standard across the majority of Formica Group's European product portfolio. This includes the full plain colour offer and over 70% of patterns, available in High Pressure and Compact grade laminates and also specialist Formica® product ranges such as DecoMetal® metallic laminates, ColorCore® through colour laminates and VIVIX® exterior facade panels.		
<i>Document: Formica FSC CW/COC certificate</i>		
Is the wood species or origin in the CITES appendix for endangered species?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

4. The production phase

Has an Environmental Product Declaration (EPD) been prepared?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Has an active choice been made, regarding the electricity supplier, in order to promote electricity production from renewable energy sources?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Formica Group's electricity is sourced from Smartest Energy whose renewable energy products are certified by the Carbon Trust. Formica Group's energy management includes deployment of high-efficiency lamps for manufacturing facilities and		

auto-sensor lighting for our offices. Closed-loop, high pressure hot water systems in our plants retain heat for successive pressings through a heat recovery system in the manufacturing process.

5. Distribution of the completed product

Describe the management of packaging for the distribution of the product	<p>Description of the packaging:</p> <p>Formica Group recognizes the economic and environmental benefits that result from efficient resource use and recycling. We use scrap laminate as a packaging material to help reduce waste, recycle scrap metal produced by our maintenance departments, collect hydraulic oils used on presses and send them to a closed loop filtration system that enables their re-use. The packaging we use to ship Formica products is made from recycled materials. It is also re-usable, recyclable and biodegradable. We also recycle paper and cardboard throughout our manufacturing processes and in our distribution centers and offices.</p> <p>100% of packaging materials that are scrapped are recycled.</p>
<p>Formica Skandinavien AB are members of FTI (Förpacknings- & Tidningsinsamlingen).</p> <p><i>Document: Formica FTI Certificate</i></p>	

6. Construction and usage phase

Are there any special requirements such as storage conditions etc. for the product during storage?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
<p>Formica® decorative laminates should preferably be stored face to face, flat in horizontal racks. The use of a cover board for covering the top sheet and keeping it flat is recommended. If this is impractical, the top sheet should be turned decorative face downwards, to prevent surface damage and warping. Where horizontal storage is not possible or where only small stocks of assorted colors and patterns are kept, these can be stacked on edge in slightly inclined vertical racks with support over the entire surface area and a cover board to prevent sliding. The recommended angle for such racks is approximately 80° from the horizontal.</p> <p>Decorative laminates should always be kept in an enclosed dry store together with corresponding substrate materials, backing boards and adhesives, at a temperature of not less than 18°C (65°F). When materials are brought into a workshop from temperatures or humidity levels different from ambient (e.g. after delivery), they should be allowed to stabilize before fabrication. Usually a minimum of three days is required. Reference: Formica Products Fabrication Advice found on formica.com.</p>			
Are there any special requirements for adjacent building products because of this product?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are there any operating/care instructions for the product?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
<i>Document: Recommendations for handling (excerpt from Formica Products Fabrication Advice 2012, page 13)</i>			
Is the product energy labeled in accordance with the Energy Labeling Directive (2010/30/EU)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not relevant

7. Waste management

Does the product require special measures to protect health and the environment in conjunction with demolition/dismantling?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the product covered by the WEEE-directive 2012/19/EU (Swedish ordinance (2014:1075) on Producer Responsibility for electrical and electronic products when it becomes waste?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is it possible to re-use all or parts of the product? (can the product be reused within the product's expected lifetime)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is material recycling possible for all or parts of the product when it becomes waste?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Formica Laminate can be brought to controlled waste disposal sites according to current national and/or Regional regulations. Waste material should be handled according to local regulations. Burning is permitted in approved industrial incinerators.		
Is energy recycling possible for all or parts of the product when it becomes waste?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
On account of their high calorific value (18 - 20 MJ/kg)*1 Formica Laminates are ideal for thermal recycling. When burnt completely at 700°C, Formica Laminates produce water, carbon dioxide and oxides of nitrogen. Therefore Formica Laminates comply e.g. with paragraph 6 of the economic law of circular flow (Kreislaufwirtschaftsgesetz). Well controlled burning processes are achieved in modern, officially approved industrial incinerators. Ashes of this process can be brought to controlled waste disposal sites.		
Does the supplier have any restrictions and recommendations for reuse, material- or energy recycling or disposal?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
When the supplied product becomes waste, is it classified as hazardous waste?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Waste code specification: The Swedish waste ordinance (2011:927) https://www.notisum.se/rnp/sls/lag/20110927.htm	17 09 04	

8. Indoor environment

Does the product have a critical moisture condition: <i>Information regarding whether critical moisture conditions leading to microbial growth apply for the material/product should be stated, but will not impact the assessment.</i>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Comments: Formica Laminate is a wood-based material and as such should have a moisture content of around 9%. Resistance properties meet the standards of EN438:2005. See attached documents: Formica HGP grade data sheet and Formica HGS grade data sheet. Formica recommends using Formica Compact in areas with high moisture content.		
Is the article intended for indoor use?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
If yes, has emission data been produced for volatile organic compounds?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
<i>See attached document: Formica ColorCore Greenguard Gold certificate</i>		

Certificate of substance content and concentrations

Certificate of declaration of substance content

For the products specified below, with their stated article numbers, the following is certified:	
A <input checked="" type="checkbox"/>	<p>It is hereby certified that concentrations of the included substances down to 0.01 weight% have been reported, and that cadmium and mercury do not occur in the product.</p> <p>or:</p> <p>The substances included are reported in line with the instructions for the Declaration of Contents, BVB's reporting requirements 2016-1, and correspond to the reporting requirements for the Recommended level.</p>
B <input type="checkbox"/>	<p>It is hereby certified that concentrations of the included substances down to 0.1 weight% have been reported, and that cadmium and mercury do not occur in the product.</p> <p>or:</p> <p>The substances included are reported in line with the instructions for the Declaration of Contents, BVB's reporting requirements 2016-1, and correspond to the reporting requirements for the Accepted level.</p>
For the products specified below, with their stated article numbers, the following is certified:	
C <input checked="" type="checkbox"/>	<p>It is hereby certified that the specified product/s do not contain specifically indicated substances and groups of substances in accordance with Table 4, Specifically indicated substances. These have not been added during production and have not been formed through reactions between the substances in the product.</p>
D <input type="checkbox"/>	<p>Unfortunately, we have to notify that the specified products contain specifically indicated substances in accordance with Table 4, Specifically indicated substances. Some of these substances have been added or been formed during reaction between the substances in the product, please see the Declaration of Contents.</p>

Table 4, Specifically indicated substances

Substance group/Substance	Examples of properties
1. Arsenic and its compounds ¹	Toxic, Environmentally hazardous
2. Brominated flame retardants	Potentially PBT/vPvB, PBT/vPvB
3. PFOA (perfluorooctanoic acid)	Persistent, bioaccumulative, probable reproductive toxicity
4. PFOS (perfluorooctanesulfonates)	Potentially PBT/vPvB, PBT/vPvB
5. Organotin compounds	Potentially PBT/vPvB, PBT/vPvB, Toxic, Environmentally hazardous
6. Biocidal product applied on products (surface treatments) to provide a disinfectant or anti-bacterial effect.	Toxic, Environmentally hazardous

Product identification: <i>(designation and article number)</i>	Formica ColorCore High Pressure Laminate BTS
State the reference document <i>(name and version/date) that contains the actual Declaration of Contents</i>	Building Product Declaration, Formica ColorCore
Person responsible for the declaration:	Catherine Dick
Signature:	
Place and date (YYYY/MM/DD):	

¹ Arsenic, or arsenic compounds, are not permitted to be added to the product. Contamination of used raw materials is not permitted to exceed 10 mg/kg. The concentration limit is set based on regulatory requirements for soil quality to ensure that accepted products do not raise background concentrations through their use or disposal (for example; sludge from sewage treatment works Swedish Ordinance 1998:944, Section 20). The same concentration limits are found in the Swedish Environmental Protection Agency's general guidelines for less sensitive land use (MKM).

Declaration of contents, BVB's declaration requirements, 2016-1

A complete declaration of contents in accordance with the instructions should be made for both products and chemical products. For products, concentrations have to be reported as a weight% for the entire product as minimum. The contents can be provided in other documentation, if the reporting instructions are complied with, or alternatively supplemented so that they are in compliance. Reporting requirements for the Accepted level correspond to the requirements for "e-BVD2015".

For the Accepted and Recommended levels, classified substances are needed to be reported in the documentation if concentrations exceed limits (weight%) in accordance with Table 5, Classified substances. Those substances that are not included in Table 5 must be reported when concentrations of $\geq 2\%$ occur.

Material and substance contents can be provided in intervals. Examples of accepted intervals are: $\leq 1\%$, 1-2.5%, 2.5-10%, 10-25%, 25-50%, 50-75%, 75-100%. In occasion of large intervals, state the reason for the variance and describe what materials/substances increase or decrease in proportion if the product, for example, comes in different sizes.

If classification is applied that is not covered by harmonized classification, this information requires to be reported in the comments column for that substance.

Table 5, Classified substances

Hazard class	Reporting limit	
	Accepted	Recommended
Carcinogenic categories 1A and 1B (H350)	$\geq 0.1\%$	$\geq 0.01\%$
Carcinogenic category 2 (H351)	$\geq 1\%$	$\geq 0.1\%$
Mutagenic categories 1A and 1B (H340)	$\geq 0.1\%$	$\geq 0.01\%$
Mutagenic category 2 (H341)	$\geq 1\%$	$\geq 0.1\%$
Reproductive toxicity, categories 1A and 1B (H360)	$\geq 0.3\%$	$\geq 0.03\%$
Reproductive toxicity, category 2 (H361)	$\geq 2\%$	$\geq 0.3\%$
Reproductive toxicity effects on or through breastfeeding (H362)	$\geq 0.3\%$	$\geq 0.03\%$
Endocrine disruptors 1, 2	$\geq 0.1\%$	$\geq 0.01\%$
PBT and/or vPvB 3	$\geq 0.1\%$	$\geq 0.01\%$
Skin sensitizers (H317)	$\geq 1\%$	$\geq 0.1\%$
Respiratory sensitizers (H334)	$\geq 0.2\%$	$\geq 0.02\%$
Hazardous to aquatic environments, chronic category 1 (H410)	$\geq 2\%$	$\geq 0.25\%$
Ozone depleting substances (EUH 059 and H420)	$\geq 0.1\%$	$\geq 0.01\%$
Acute toxicity category 1 (H300, H310, H330, H301, H311 and/or H331)	$\geq 0.1\%$	$\geq 0.01\%$
Acute toxicity category 2 (H300, H310, H330, H301, H311 and/or H331)	$\geq 1\%$	$\geq 0.1\%$
Acute toxicity category 3 (H300, H310, H330, H301, H311 and/or H331)	$\geq 2\%$	$\geq 1\%$
Pure or compounds of cadmium (Cd)	$\geq 0.01\%$	$\geq 0.001\%$
Pure or compounds of lead (Pb)	$\geq 0.1\%$	$\geq 0.01\%$
Pure or compounds of mercury (Hg)	Contamination ≥ 2.5 mg/kg (ppm) of active additives must always be reported.	
1Endocrine disruptors (EDS list)	$\geq 0.1\%$	$\geq 0.01\%$
2Endocrine disruptors (SIN list)		$\geq 0.01\%$
3PBT, vPvB (SIN list)	$\geq 0.1\%$	$\geq 0.01\%$
Candidate List	$\geq 0.1\%^*$	$\geq 0.01\%$
Other classifications or unclassified substances and material	$\geq 2\%$	$\geq 2\%$

*Substances on the Candidate List have to be reported at component level.

Descriptions of material

Substances should be reported with their CAS- or EC number. Exemptions for certain material can be performed in accordance with the following instructions.

Metals should always be reported together with their alloy number. Alternatively, substances comprising more than 0.01% of the alloy have to be specified in the documentation.

Plastics and rubber materials should be reported together with their name so that it is clearly which monomers that are included, for example, acrylonitrile butadiene styrene (ABS), polyethylene (PE), etc. Additives that have not formed polymers should always be reported in accordance with requirements specified above (for example pigments, plasticizers, stabilizers, etc.).

Plastics/polymers with descriptions in line with the following list are accepted without specification of monomers.

- Polycarbonate (pertains to bisphenol A based polycarbonates)
- Polyester (monomers must be specified for halogenated polyesters)
- Polyurethane (monomers must be specified for halogenated polyurethanes)
- Fiberglass reinforced epoxy resin laminates FR4 (pertains to tetrabromobisphenol A based polymers)
- MS-polymer (refers to silane modified polyether)

Note that if the plastic/polymer contains additives (such as pigments, plasticizers, stabilizers, etc.), they shall always be reported in accordance with the declaration requirements.

Other materials with the following descriptions are accepted without clarification or detailed description of their components as the materials normally consist of:

- Glass (any content of lead needs to be reported for the assessment level recommended, e.g. relevant for recycled glass)
- Concrete (polymers included in the concrete are reported separately)

Examples of designations of plastics/polymers and other material descriptions that require further clarification are:

- Polymer dispersion
- Copolymer
- Thermoplastic elastomers (TPE)
- Thermoplastics
- MS polymers
- Mineral fillers
- Silanes: The type of polymer needs to be given, e.g. if it refers to a silane/silyl modified polyether or polyurethane.
- PVC: for contents above 2%, plasticizers always needs to be given with CAS no. Concentration of plasticizers below 2%, needs to be declared according to declaration requirements specified in Table 5. If no plasticizer is declared, the reason for that needs to be given.
- EPDM and SBR rubber: for levels above 2%, mineral/paraffin oil always needs to be given with CAS no. As an alternative, the maximal PAH content in the material can be given. For products intended to be used in contact with skin, the maximum content of PAH content shall be reported.
- The PAH content in the material needs to be reported for the assessment level recommended when asphalt/bitumen is present above 10% in the product.

For complex products, references to subcomponents which are assessed in BVB's systems with a specified BVB ID, can be used.