BUILDING PRODUCT DECLARATION

Formica High Pressure Laminate

1. Product information

Product

Product name:	Formica High Pressure Laminate (HPL)	
Article:	*Formica High Pressure Laminate* *HGS (standard), HGP (post formable) and HGF grade (Fire retardant)*	
Product description: *Document: Product Data Sheet*	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 (≥ 120°C) and high specific pressure (≥ 5 MPa), provides flowing and subsequent curing of the thermosetting resins to obtain a homogeneous non-porous material (≥ 1,35 g/cm³) 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. 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. Formica Laminates are supplied in sheet form in a variety of sizes, thicknesses and surface finishes. Where improved fire retardance is required, the laminate core may be treated with an additive which does not contain halogens.	
Type of product:	☐ Chemical product	☒ Article
Date of preparation/revision:	2018/03/05	

Supplier/Manufacturer

Supplier:	Formica Group / Formica Skandinavien AB
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Supporting documentation

Has a declaration of performance, in line with the Swedish Construction Products Regulation, been prepared for the product?	☐ Yes	☒ No Not relevant for the product.
Is the article/product an electronic product and covered by the RoHS-directive (2011/65/EU)?	☐ Yes	☒ 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%?	☐ Yes	☒ 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)*
HGS and HGP quality			
Kraft paper, 100%		**53%**	
Décor paper, 100%		**13%**	
Laminate, melamine resin	**9003-08-1**	**13%**	
Laminate, phenolic resin	**9003-35-4**	**21%**	
HGF quality			
Kraft paper, 100%		**49-51%**	
Décor paper, 100%		**8-12%**	
Laminate, melamine resin	**9003-08-1**	**8-12%**	
Laminate, phenolic resin	**9003-35-4**	**31-33%**	

Nanomaterial

Does the product contain any nanomaterial that has been purposefully added to achieve a specific function?	☐ Yes	☒ No

3. Recycled raw material

Does the product contain recycled material?	☐ Yes	☒ No

If wood raw material is included

Can the product be ordered with sustainability certificates for the wood raw material? ***E.g.: FSC and PEFC***	☒ Yes	☐ 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.		
Document: Formica FSC CW/COC certificate		
Is the wood species or origin in the CITES appendix for endangered species?	☐ Yes	☒ No

4. The production phase

Has an Environmental Product Declaration (EPD) been prepared?	☒ Yes	☐ No
Has an active choice been made, regarding the electricity supplier, in order to promote electricity production from renewable energy sources?	☒ Yes	☐ 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. Production sites: North Shields, 100% renewable energy supplied by Northern Powergrid (Northeast) Limited. Kolho, 9.1% renewable energy supplied by Vattenfall Oy.		

5. Distribution of the completed product

Describe the management of packaging for the distribution of the product	**Description of the packaging:** 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. 100% of packaging materials that are scrapped are recycled.
Formica Skandinavien AB are members of FTI (Förpacknings- & Tidningsinsamlingen). *Document: Formica FTI Certificate*	

6. Construction and usage phase

Are there any special requirements such as storage conditions etc. for the product during storage?	☒ Yes	☐ No
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. 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.		

Are there any special requirements for adjacent building products because of this product?	☐ Yes		☒ No
Are there any operating/care instructions for the product?	☒ Yes		☐ No
Document: Recommendations for handling (excerpt from Formica Products Fabrication Advice 2012, page 13)			
Is the product energy labeled in accordance with the Energy Labeling Directive (2010/30/EU)?	☐ Yes	☐ No	☒ Not relevant

7. Waste management

Does the product require special measures to protect health and the environment in conjunction with demolition/dismantling?	☐ Yes	☒ 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?	☐ Yes	☒ No
Is it possible to re-use all or parts of the product? (can the product be reused within the product's expected lifetime)?	☐ Yes	☒ No
Is material recycling possible for all or parts of the product when it becomes waste?	☒ Yes	☐ 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?	☒ Yes	☐ 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?	☐ Yes	☒ No
When the supplied product becomes waste, is it classified as hazardous waste?	☐ Yes	☒ 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: *Information regarding whether critical moisture conditions leading to microbial growth apply for the material/product should be stated, but will not impact the assessment.*	☐ Yes	☒ 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?	☒ Yes	☐ No
If yes, has emission data been produced for volatile organic compounds?	☒ Yes	☐ No
If yes, attach the report/certificate together with the application. *See document: Formica HPL Greenguard certificate*		