

MATERIAL SAFETY DATA SHEET

This information describes the composition of CROWN DÉCOR Compact laminates and gives advice for their handling, processing, use and disposal. CROWN DÉCOR Compact laminates are not classified as hazardous substances and therefore do not require a special marking nor a description by a safety data sheet.

1. Description / Composition

CROWN DÉCOR Compact laminates are high pressure laminates (HPL) according to European norm EN 438.

HPL are sheets consisting of layers of cellulose fibrous material (normally paper) impregnated with thermosetting resins and bonded together by the high pressure process. The process, defined as the simultaneous application of heat ($\geq 120^{\circ}\text{C}$) and high specific pressure provides flowing and subsequent curing of the thermosetting resins to obtain a homogenous non porous material ($\geq 1,35 \text{ g/cm}^3$) with the required surface finish.

Basically 2/3 of the HPL consists of paper and the remaining 1/3 of cured phenol-formaldehyde resins for the core layers and melamine-formaldehyde resin for the surface layers plus an acrylic coating in case of CROWN DÉCOR Exterior.

The resins belonging to the group of thermosetting resins are irreversibly cross-linked by chemical bonds formed during the curing process producing a nonreactive, stable material with characteristics which are totally different from those of its component parts.

CROWN DÉCOR Compact laminates are supplied in sheet form in a variety of sizes, thicknesses and surface finishes.

2. Storage and transport

Storage and transport shall be in accordance with the general processing recommendations for HPL.

crown decor pvt. ltd.

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CIN NO. : U36100GJ2011PTC066973 | GST NO. : 24AAECK5205C1Z5

3. Handling and machining of CROWN DÉCOR Compact laminates

The usual safety requirements of fabrication and machining have to be followed with regard to dust:

- Dust separation,
- Dust extraction,
- Fire prevention etc.

Because of the possibility of sharp edges protective gloves should be worn when handling laminates. The contact with dust from HPL does not present any special problems, however a small percentage of personnel may be sensitive or even allergic to matching dust in general.

4. Environmental and health aspects in use

CROWN DÉCOR Compact laminates are a cross-linked, duromere material that is chemically inert. Due to their very low permeability CROWN DÉCOR Compact laminates act as a barrier against possible gaseous emissions.

CROWN DÉCOR Compact laminates are approved for direct contact with foodstuff.

The decorative surface of CROWN DÉCOR Compact laminates are resistant to all common household solvents and chemicals, and has therefore been used for many years in applications where cleanliness and hygiene are demanded.

The non porous surface is easy to disinfect with hot water, steam and all types of disinfectants used in hospitals and other commercial applications.

5. Maintenance

As HPL do not suffer from corrosion and oxidation, no further surface protection and no maintenance apart from cleaning is needed.

6. Waste disposal

HPL can be disposed on controlled waste disposal sites according to current national and/or regional regulations.

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7. Technical data

7.1 Physical-chemical characteristics

7.1.1 **Density:** ca. 1,44 g/cm³

7.1.2 **Solubility:** insoluble in water, oil, organic solvents

7.1.3 **Thermal decomposition** above 250°. Depending upon burning conditions
(Lack of oxygen, temperature) toxic substances may be emitted; HPL do not melt

7.1.4 **Dangerous reactions** none

7.1.5 **Heavy metals** none

7.2 Storage, transport and handling

7.2.1 HPL are classified as non-hazardous; there are no special requirements

7.2.2 Use gloves to protect from sharp edges and wear safety glasses when matching.
No special working equipment is necessary except protections to minimize dust exposure in case of sheet machining.

7.2.3 Protection against fire: as with wood and wood based materials

7.3 Extinguishing media

All common media applicable

7.4 Health information

CROWN DÉCOR Compact laminates are not considered to be dangerous for humans and animals. There is no evidence of toxicological effects and eco-toxicity.

All the above information is based on the current state of technical knowledge, but does not constitute any form of guarantee. It is the personal responsibility of users of the product, described in this information leaflet, to comply with the appropriate laws and regulations.

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