

Material safety data sheet

Product:

Melamine faced particleboard

E1 –EN 312 P2

1. Product information

Supplier : KRONOSPAN, s.r.o. Zvolen

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Description : Melamine faced particleboard conforming to EN 312 P2

1.1. Identification of product

Melamine faced particleboard (MFC) P2 is three-layer flat pressed wood based panel made of specially selected wood chips bonded with high quality urea-formaldehyde resin (UF). Boards are delivered in thickness range from 8 - 38 mm with low thickness tolerances, with surface treatment by decorative, resin-impregnated paper. The resin-impregnated paper is produced in two-stage impregnation process where the decorative paper is impregnated by urea resin and afterwards by the melamine resin. The boards meet requirements of STN EN 312 standard, type P2 defined as panels for interior fitments including furniture for use in dry conditions.

2. Hazard identification

Harmful by inhalation (dust, formaldehyde). Effects of skin contact are not known and may vary.

3. Information on ingredients of melamine faced particleboard (given in kg/1 m³):

Wood	- 580 - 680 kg	atro – hard wood 10%, soft wood 90%
UF resin	- 40 - 50 kg	(solid)
Paraffin	- 1,5 – 2,0 kg	
Hardener – ammonium nitrate	- 3,2 kg	(solid)
Urea	- 0,5 kg	
Melamine paper	- 8 – 40 kg	
Extractable formaldehyde	- 0,008 % max .	(emission class 1)

Consumption of raw materials varies depending on thickness of the boards.

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4. First aid measures

After inhalation : Remove from exposure. If discomfort persists seek medical attention.

After skin contact : Wash affected area with water and soap

After eye contact : Wash out with water. If discomfort persists seek medical attention.

After swallowing : Wash out mouth with water.

5 . Fire fighting measures

Under the EU Directive - Commission Decision 2007/348/EC of 15 May, 2007 the reaction to fire is classified as CWFT (without the need of their further testing). The MFC is included in the class D with additional classification in relation to smoke production s1 and in relation to flaming droplets/particles d0. The overall classification is D-s1,d0.

In case of fire use: water, CO₂. Dust from cutting is an explosive hazard. Thermal decomposition produces irritating and toxic gases incl. CO₂, aldehydes and organic acids.

6. Accidental release measures

Sweep, vacuum the wood dust for disposal or recovery, avoid generation of dusty conditions. Provide good ventilation.

7. Handling and storage

7.1. Transport

- by means of railway wagons, designed for this type of transport (closed and protected against adverse weather conditions). The cargo is secured against damage by means of cross wall and lashing straps.

- by means of trucks, the cargo is protected against adverse weather conditions by truck tarpaulins and against damage by shifting by means of lashing straps.

It is necessary to be careful during handling and protect hands from small splinters of wood. Follow good housekeeping practices, clean up areas where dust settles to avoid excessive accumulation of combustible material. Avoid generation of explosive level of dust in the air.

7.2. Storage

MFC is stored on pallets. The pallet contains supporting packaging particleboard and the top of the pallet is protected by cardboard. Store the product in dry and ventilated area at optimal air humidity of 40 - 65 %. The individual pallets must be furnished with stacking laths, the bottom package should be placed at least 10 cm above the floor.

8. Exposure controls / Personal protection

Wood dust : 8 hours 5 mg /m³

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Formaldehyde : 8 hours 2 ppm (2,5 mg / m³ STEL 15 minutes 2 ppm (2,5 mg / m³)

Respirator : under dusty conditions an approved respirator is recommended.

Ventilation : local exhaust. Due to explosive potential of wood dust when suspended in air, precautions should be taken to prevent sparks or other ignition sources in ventilation equipment. Use of totally enclosed electric motors is recommended.

Gloves : Recommended to reduce skin contact, except where moving parts expose finger fingers to hazards.

Eyes : Safety glasses or goggles recommended.

9. Physical and chemical properties

Colour : yellow to tan, physical and mechanical properties according to EN 312 P2 .

Ignition temperature of dust : 100 °C

Related standards :

STN EN 13986 - Wood-based panels for use in construction

STN EN 312 – Particleboards - Specifications

STN EN 310 - Determination of modulus of elasticity in bending and of bending strength

STN EN 317 - Determination of swelling after storage in water

STN EN 318 - Determination of dimensional changes associated with changes in relative humidity

STN EN 319 - Determination of tensile strength perpendicular to the plane of the board

STN EN 322 - Determination of moisture content

STN EN 323 - Determination of density

STN EN 324 - Determination of dimensions of boards.

Part 1: Determination of thickness, width and length

Part 2: Determination of squareness and edge straightness

STN ISO EN 12460-5 - Determination of formaldehyde content. Extraction method called the perforator method

10. Stability and reactivity

Thermal decomposition produces irritating and toxic gases including, aldehydes and organic acids. Avoid oxidising agents and drying oils. Keep away from sources of ignition.

11. Toxicological information

Quantitative data on the toxicity of this product are not available. Chronic effects of skin contact with wood dust are not fully known and may vary.

Adverse effects on the environment can not be excluded but unlikely when handled, stored and disposed appropriately.

12. Ecological information

Quantitative data on the ecological impact of this product are not available. Adverse effects on the environment can not be excluded but unlikely when handled, stored and disposed appropriately.

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13. Disposal considerations

In regard to general obligations laid down by the law on waste it is always preferably to seek material recovery for this kind of waste, if it was not possible to prevent its creation. In this regard, this type of waste can be considered to be a waste meeting the requirements set by the company Bučina DDD spol. s r. o. Zvolen for incoming raw material. Company Bučina DDD spol.s r.o. Zvolen is able to ensure its processing when taken back.

Landfill is not advised but can be used as a last resort. It is however the user's responsibility to ensure waste is disposed of in accordance with all valid laws.

14. Transport information

No transport warning sign required.

15. Regulatory information

STN EN 312-1 Particleboards – Specifications. Part 1 General requirements for all board types

STN 49 2628 Laminated wood based boards - Specifications

STN ISO EN 12460-5 Determination of formaldehyde content. Extraction method called the perforator method

STN 73 0823 Flammability degree of building materials

Act No 163/2001 on chemical substances and chemical preparations

Act No. 223/2001 on waste and on amendment of certain acts

Decree no. 284/2001 of the Ministry of Environment of the Slovak Republic establishing the Waste Catalogue

Decree no. 67/2001 of the Ministry of Economy of the Slovak Republic publishing the list of chosen chemicals and chemical preparations which marketing and use is restricted or prohibited

Notice by the Ministry of the Economy SR no. 402/2001 on issue of Decree-Law No 7 of 21st.

September 2001 „List of chosen dangerous substances and chemical preparations which marketing is restricted for their effects on the lives and health of people and the environment and the list of chosen dangerous chemical substances or chosen dangerous chemical preparations which are subject to the prior informed consent procedure“.

Decree no. Z-9021/84-B/2-06 „Amendment on the sanitary requirements of working environment – adjustment“, Official Journal of Ministry of Health SSR 1985, part 8.

16 . Additional information

This data sheet has been compiled based on our present knowledge. However, it does not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.