

Material Safety Data Sheet: CarbonFoam PVC

1. Identification of Substance / Preparation and of Company

Trade Name: CarbonFoam PVC Rigid Foam
(PVC 60,80,100)

Use of Preparation Structural core for sandwich composites

Manufacturer Carbon-Core Corp.
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Keswick VA 22947
Warehouse: 48 Zion Station Court, Troy VA 22974
Tel: 434-510-7115 info@carbon-core.com

2. Composition / Information on Ingredients

Ingredients PVC, Aromatic Polyureas

Blowing agent CO₂,N₂

Further ingredients: Residues of chemical blowing agent. Organic color pigments. Stabilizers

3. Hazards Identification

Non-Hazardous CarbonFoam PVC does not constitute any risk to public health if it is used correctly.

Machining produces dust and fumes.

The foam is highly resistive: it could be loaded electrically in particular after machining. It can produce electric sparks.

4. First Aid Measures

Inhalation of processing fumes: In case of physiological reaction due to long exposure to fumes: move victim to fresh air.
If irritation persists, use oxygen or artificial respiration and get medical assistance.

Inhalation of fumes in case of fire: In case of physiological reaction due to long exposure to fumes: move victim to fresh air.
If irritation persists, use oxygen or artificial respiration and get medical assistance.

Skin Contact: Wash with water

Eye contact: Flush with water if irritation develops. If the irritation persists get medical assistance.

Ingestion: No specific measures. Get medical assistance if any symptom develops.

5. Fire-Fighting Measures

Suitable extinguishing media: water spray, foam, CO₂, extinguishing powder.
Hazardous combustion products: CO, CO₂, HCl, HCN.
Special protective devices: use respiratory independent protection of recirculated air.

6. Accidental Release Measures

No special measures required

7. Handling and Storage

Handling: Machining will create dust, local over-heating during machining can create fumes.

Use ventilating system with suction and fresh air.

Storage: Stow indoor. Danger of electrostatic charges when stored in a very dry area.

8. Exposure Control / Personal Protection

Exposure Control: Use gloves, protective goggles and dust mask.
Use of dust and gas extraction equipment when sawing, milling, grinding and sanding. The workplace must be continuously supplied with fresh air.
While thermoforming a respiratory protection is recommended.
If the work place is not sufficiently ventilated the use of respiratory protection is compulsory in case of long exposure.

9. Physical and Chemical Properties

Physical State / Form: Polymer foam sheet with visible cell structure.

Density: 30 - 400 kg/m³ (2-25 lb/ft³)

Color: Different colors identify different densities.

Glass Transition Temperature: 65 to 80 °C ISO 537

Decomposition Temperature: > 220 °C

Flash Ignition Temperature: > 380 °C

Solubility: Insoluble in water, sea water, acids, alkalies, aliphatic hydrocarbons
Soluble in aromatic hydrocarbons, ketones, chlorinated hydrocarbons

10. Stability and Reactivity

General Information: Stable under normal conditions

Flammability Class S: S4 (DIN 5510-2 ed 2009)

Conditions to Avoid: Temperatures higher than 180 °C

11. Toxicological Information

Toxicological Tests: No Data available

Experience with man: Skin Contact: No symptoms known
Eye Contact: Dust may cause irritation
Inhalation: Dust and fumes may cause irritation of respiratory tracts, dizziness, nausea, and headaches may occur if processing is performed without sufficient ventilation and respiratory protection over several hours in poorly ventilated areas
Ingestion: No symptoms known

12. Ecological Information

Eco-toxicity: The total amount of heavy metals is less than 100 mg/kg [ppm].

Mobility: Not soluble in water, therefore effects on groundwater are unlikely

Persistence and Degradability: Biologically not degradable

13. Disposal Consideration

The product can be disposed together with domestic and industrial waste. Refer to the local legislation.

14. Transport Information

Railroad:	RID	No restriction
Road:	ADR	No restriction
Sea:	IMDG Code	No restriction
Air:	ICAO-TI/ATA-DGR	No restriction
	UN-Classification	Not required

15. Regulatory Information

The product does not require marking and labeling according to the European Directive 67/548/CEE.

16. Other Information

The information herein are based on our present knowledge. They are not intended as any guarantee of specific properties. It is issued in respect of safety requirements and not to provide information on the quality of the product. Local and international legislation and normative are to be followed by the final user of the product. For an outdated revision, please refer to the contacts located at the bottom of each page.