

Multiwall Polycarbonate Material Safety Data Sheet

I. IDENTIFICATION OF THE SUBSTANCE, PREPARATION AND MANUFACTURER

Hollow Profile Sheet made of Polycarbonate

Cas #: E.I.M.P. dott. Gallina s.r.l.. Stradaignano 104, 10040 La Loggia (TO) – Italy

2. COMPOSITION/INFORMATION ON INGREDIENTS

Polycarbonate based on Bisphenol A

3. HAZARD IDENTIFICATIONS

Emergency Overview

Sheets have almost no odor. Can burn in fire creating dense toxic smoke. If heated to melt-point the molten plastic can cause severe thermal burns. Secondary operations, such as grinding, sanding or sawing can produce dust, which may create a respiratory or explosion hazard.

(a) Potential Health Effects

Eye Contact

Product may cause irritation or injury due to mechanical action.

Skin Contact

Sheets are not likely to cause skin irritation. If heated to melt-point the molten plastic can cause severe thermal burns.

Ingestion

Not acutely toxic.

Inhalation

Unlikely due to physical form.

Chronic/Carcinogenicity

Not listed

Medical Restrictions

There are no known human health effects aggravated by exposure to this product.

4. FIRST-AID MEASURES

Emergency and First Aid Information

Eye Contact

Remove contact lenses at once. Immediately flush eyes well with copious quantities of water or normal saline for at least 20-30 minutes. If irritation persists, seek medical attention.

Skin Contact

Wash skin thoroughly with soap and water. Seek medical attention if rash or burn occurs.

Ingestion

Not probable. If large amount is swallowed, seek medical attention.

Inhalation

Not likely due to physical form.



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Burns Burns by molten materials must receive medical attention.
Do not try to remove melted PC from skin.

5. FIRE-FIGHTING MEASURES

Extinguishing materials: water spray is recommended due to its cooling capacity.
Other materials such as extinguishing powder, CO₂, foam, dry powder are also possible.
Firemen must wear self-contained breathing apparatus.

Flash Point Not applicable

Auto Ignition Temperature 630°C (1166°F) estimated

Lower Exposure Limit (%) Not established

Upper Exposure Limit (%) Not established

Hazardous Combustion By-Products Hazardous combustion by-products may include intense heat, dense black smoke, carbon monoxide, carbon dioxide and hydrocarbon fragments.

6. ACCIDENTAL RELEASE MEASURES

Sweep or gather up material mechanically.

7. HANDLING AND STORAGE

Ensure adequate ventilation or exhaust ventilation in the working area. Dust must be removed by effective exhaust ventilation. Avoid contact with PVC plasticizers (phtalates).

Store in a dry place away from moisture, excessive heat and sources of combustion.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

No specific exposure related hazards are known. Wear protective gloves while handling sheets.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Hollow Plastic Sheet

Color Colorless or pigmented:
Clear, Opal Ice, Bronze, Blue, Green, Grey and other

Odor Odorless

Softening Point 150-160°C (300-320°F)

Density 1200 kg/m³ at 20°C

Sheet 125-250 kg/m³

Vapor Pressure Not applicable

Viscosity Not applicable



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Solubility in Water	Insoluble
pH Value	Not applicable
Flash Ignition Temperature	>450°C (842°F)
Self Ignition Temperature	>450°C (842°F)
Exposure Limit	Not applicable

10. STABILITY AND REACTIVITY

Thermal decomposition Decomposition begins at 380°C (716°F).

Hazardous decomposition products In cases of smoldering and incomplete combustion, toxic fumes mainly consisting of CO and CO₂ may develop as well as traces of Aliphatic and Aromatic Hydrocarbons, Aldehydes, Acids, Phenol and Phenol-derivatives.

Hazardous reactions No hazardous reactions observed.

11. TOXICOLOGICAL INFORMATION

Eye Product not considered as a primary eye irritant.

Skin Product not considered as a primary skin irritant.
Dermal LD50 (rabbit) >2g/kg estimated.

Acute Oral Oral LD50 (rat) >5g/kg estimated.

12. ECOLOGICAL INFORMATION

Water Water pollution class (WGK): 0 – not generally hazardous to water.

General Not expected to present any significant ecological problems.

13. DISPOSAL CONSIDERATIONS

Recycle and Discharge This product is suitable for mechanical recycling. After appropriate treatment it can be remelted and processed into new molded articles. Mechanical recycling is possible if the material has been selectively retrieved and carefully segregated according to type. May be discharged or incinerated together with household refuse if local official regulations are observed.

If material is released or spilled Sweep or gather up material and place in proper container for disposal or recovery.



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14. Transport Information

Dot Hazard Class Not regulated

Proper Shipping Name Not regulated

Identification Number Not listed

Other information Not dangerous cargo. Keep dry.

15. REGULATORY INFORMATION

No labeling required in accordance with the EEC directives.

In connection with dusts formed in consequence of mechanical treatment, e.g. grinding, the appropriate regulation/maxima values for fine dusts must be observed:

MAX Value (fine dust) 6mg/m³

This product does not contain reportable quantities of substances subject to supplier notification.

16. OTHER INFORMATION

The safety data sheet is valid for Polycarbonate (bisphenol-A-carbonate).

The trade names of the base resin are Makrolon of Bayer AG Germany and Lexan of General Electric Plastics B.V. Holland, and Calliber – Dow chemicals.

Pigments and additives used to enhance specific properties are encapsulated in the polymer resin matrix, and/or on the sheet surface.



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