

Safety Data Sheet



Multiwall Polycarbonate Sheet

1. Product details

Usage:	Hollow profile polycarbonate sheet
Chemical characterization:	Polycarbonate based on Bisphenol A

2. Hazards identification

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.

3. First aid measures

Inhalation:	Not likely due to physical form.
Skin contact:	Sheets are not likely to cause skin irritation. If heated to melt-point the molten plastic can cause severe thermal burns. Do not try to remove melted plastic from skin.
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.
Ingestion:	Not probable. If large amount is swallowed, seek medical attention.

4. Fire – fighting measures

Suitable extinguishing measures:	Water spray is recommended due to its cooling capacity. Other materials such as extinguishing powder, CO ₂ , foam, and dry powder are also acceptable.
Specific fire hazards:	This product is a combustible thermoplastic material that burns vigorously with intense heat.
Special protective equipment & precaution for fire fighters:	Wear a self-contained breathing apparatus and full protective gear.
Hazardous combustion by-products:	Hazardous combustion by-products may include intense heat, dense black smoke, carbon monoxide, carbon dioxide, and hydrocarbon fragments.

5. Accidental release measures

Sweep or gather up material mechanically.

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6. Handling and storage

Ensure adequate ventilation or exhaust ventilation in the working area. Dust may be removed by effective exhaust ventilation. Avoid contact with PVC plasticizers (phthalates). Store in a dry place away from moisture, excessive heat, and sources of combustion.

7. Exposure control

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

8. Physical and chemical properties

Physical state:	Hollow plastic sheets
Color:	Colorless or pigmented: Clear, Opal Ice, Bronze, Blue, Green, Grey, and other
Odor:	Odorless
pH:	Not applicable
Softening point:	300-320°F (150-160°C)
Flash point:	>842°F (450°C)
Auto-ignition temperature:	>842°F (450°C)
Explosion limits:	Not applicable
Evaporation rate:	Not applicable
Vapor pressure:	Not applicable
Density:	1200 kg/m ³ at 20°C
Solubility:	Insoluble

9. Stability and reactivity

Thermal decomposition:	Decomposition begins at 716°F (380°C).
Hazardous decomposition products:	In cases of smoldering and incomplete combustion, toxic fumes mainly consisting of CO and CO ₂ may develop as well as traces of Aliphatic and Aromatic Hydrocarbons, Aldehydes, Acids, Phenol and Phenol-derivatives.
Hazardous reactions:	No hazardous reactions observed.

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10. Toxicological information

This product should not be harmful under normal conditions of use.

Eye: Product not considered a primary eye irritant.

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

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

11. Ecological information

This product is a solid, inert product with low volatility, and is essentially insoluble in water.

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

General: Not expected to present any significant ecological problems.

12. 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.

13. Transport information

Not subject to national and international regulations on the transport of dangerous goods.

14. Regulatory information

No labeling required in accordance with the EEX 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.