

Product Handling Information Document

Extruded multiwall sheet based on Polycarbonate

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1. COMPANY

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2. PRODUCT NAME

MULTICLEAR®

3. AREA OF USE

Extruded thermoplastic sheet to be used for industrial conversion to various components or used as such.

4. COMPOSITION/CLASSIFICATION OF SUBSTANCES

Polycarbonate: CAS 103598-77-2

5. HAZARDS IDENTIFICATION

Extruded sheets are not hazardous products and the polymer is generally an inert material with low degradability in the ground environment.

6. FIRST AID MEASURES

Inhalation:

In case of irritation from inhalation of fumes, leave contaminated area to breathe fresh air.

Skin:

In case of skin contact with molten plastic, cool rapidly with water. Seek medical attention.

Eye:

In case of dust particles in eye, rinse with water. Seek medical attention if irritation remains.

7. FIRE FIGHTING MEASURES

Extinguishing:

Water, CO₂, Powder, Foam. Water preferred due to cooling capacity.

Protection:

Firemen should wear protective clothing and self-contained breathing apparatus.

Hazardous Combustion Products:

Carbon monoxide, carbon dioxide, hydrocarbon fragments, traces of aliphatic and aromatic hydrocarbons, aldehydes, acids, phenol derivatives.

8. STORAGE AND HANDLING

Ensure adequate ventilation or exhaust ventilation in the working area. Avoid inhalation of dust. **MULTICLEAR® Polycarbonate Multiwall** should be stored under normal storage conditions. It should be stored indoors to be protected from heat, dust, dirt and direct sunlight.

When stored outside **MULTICLEAR® Polycarbonate Multiwall** must be completely covered with a UV stabilized protective foil to protect them against atmospheric phenomena, water, dust and other impurities.

The cover must not be tight – it must allow air to circulate to prevent water condensation. The cover must be well fastened so that it is not blown away by the wind if stored outside.

The **MULTICLEAR® Polycarbonate Multiwall** must be laid horizontally on a flat and solid base. Use a solid, wooden and undamaged pallet that is as long as the longest sheet.

The top pallet must be placed flat – it must not extend beyond the edge of the lower pallet. The surface under the pallets with **MULTICLEAR® Polycarbonate Multiwall** must be free of sharp parts or protrusions that could cause damage.

Stack sheets flat horizontally starting with the longest sheet on the bottom (longest to shortest).

A maximum of 6 pallets may be stacked on top of each other (depending on the weight and length of the panels). When stacking pallets on top of each other, always make sure

that no stones or other particles are stuck to the bottom of the pallet being handled. This could damage the **MULTICLEAR® polycarbonate Multiwall** on the bottom pallet.

There must be no hard or sharp objects between the sheets on the pallets.
Use a forklift or pallet truck with extra care when stacking to avoid lateral shifting or tipping.

Always use a forklift with adequate tonnage according to the weight of the **MULTICLEAR® Polycarbonate Multiwall**.

Always use **adequate fork** size (length, width) according to handled size, to avoid deflection above the permissible limit of the **MULTICLEAR® Polycarbonate Multiwall** and damage to the pallet itself.

Pallets with **MULTICLEAR® Polycarbonate Multiwall** must be stowed stably, on a flat surface, and must not be near the edge of ramps or other height transitions.

Do not bend, throw or push the **MULTICLEAR® Polycarbonate Multiwall** – there is a risk of cracking or permanent deformation.

Do not place any heavy objects on the **MULTICLEAR® Polycarbonate Multiwall** nor step or walk on them – there is a risk of mechanical damage.

To avoid unnecessary scratches, pick up and carry instead of dragging the **MULTICLEAR® Polycarbonate Multiwall**.

Even though **MULTICLEAR® Polycarbonate Multiwall** is durable, protect sheets during handling.

Even though **MULTICLEAR® Polycarbonate Multiwall** is flexible, do not fold sheets when handling.

9. EXPOSURE CONTROLS/PERSONAL PROTECTION

Strong heat, as processing at elevated temperatures, can give fumes that irritate eyes or throat. Fumes evolved by overheating may contain monomers, hydrocarbons, and their oxidation products; see table below for threshold levels.

Name	CAS-no	Lower Threshold
Chlorobenzene	108-90-7	47 mg/m ³ ; 10 ppm
Phenol	108-95-2	4 mg/m ³ ; 1.0 ppm
Fine dust	-	5 mg/m ³

Provide good ventilation. Adequate general ventilation of the workplace is sufficient for most processes. If dust is formed during processing, use respirator approved for protection from dust. Work clothes, covering arms and legs, are recommended if working with heated material. Use protective eye wear during cutting/machining of sheet products.

10. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Physical state	Solid (sheet form)
Colour	Colourless or colour dependent on colouring
Odour	Odourless
Boiling point	Not applicable
Density	Approx. 1.2 g/cm ³ at 20°C
Evaporation rate	Not applicable
Explosive limits	Not applicable
Flash point	> 450°C (combustible solid)
Self Ignition temperature	> 450°C
Melting range	150–160°C
pH	Not applicable
Vapour density (air=1)	Not applicable
Vapour pressure (mmHg)	Negligible
% Volatiles	Negligible
Water solubility	Insoluble

11. RECYCLING AND RECOMMENDATIONS FOR DISPOSAL

Recycling:

This product can be recycled. Please contact Arla Plast s.r.o for information.

Waste Disposal:

This product is not regarded as hazardous waste. Dispose in accordance with local regulations.

12. OTHER INFORMATION

This publication provides information and guidelines for safe handling and secondary fabrication of the above PC products and is based on currently available experience and knowledge. The data does not signify any warranty with regards to product properties.