

Product Handling Information Document

Extruded sheet based on Polycarbonate (PC)

MF10-02 - 2022-01-10, English version: 4

COMPANY

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PRODUCT NAME

MAKROCLEAR™, MAKROCLEAR™ FR, MAKROCLEAR™ FA, MAKROCLEAR™ TEX, MAKROCLEAR™ ICE, MAKROCLEAR® ANTI-REFLEX, MAKROCLEAR™ SQ, MAKROCLEAR™ R, MAKROCLEAR™ HARDCOAT, MAKROVISION™, POLYCARBONATE, MAKROLIFE™, MAKROLIFE™ TEX, MAKROLIFE™ ICE, MAKROLIFE™ AR, COLORADO®, COLORADO® UV, COLORADO® FI, COLORADO® FR, COLORADO® LED, SAPHIR® COLORADO, POLYCARBONATE, POLYCARBONATE UV, SAPHIR®, SAPHIR® HCE, SAPHIR® FLEX, SAPHIR® SPD, SAPHIR® AS, MAKROTECH™, MAKROTECH™ UV, MAKROTECH™ FR, MAKROTECH™ MATT, PC FROST™, RPC, RPC UV

AREA OF USE

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

COMPOSITION/CLASSIFICATION OF SUBSTANCES

Polycarbonate

CAS 103598-77-2 or CAS 25971-63-5

SAPHIR™ range and MAKROCLEAR® HARDCOAT: Polycarbonate substrate coated with a siloxane coating.

SAPHIR® AS: Polycarbonate substrate coated with an anti-static lacquer.

MAKROTECH® Matt DP: Polycarbonate substrate with a coextrusion layer of a mineral filled polycarbonate compound.

HAZARDS IDENTIFICATION

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

FIRST AID MEASURES

Inhalation

In case of irritation from inhalation of fumes, leave contaminated area to breath fresh air. If coughing, difficult breathing or any other symptoms develop, seek medical attention.

Skin

In case of skin contact with molten plastic, cool rapidly with water. Seek medical attention. Do not attempt removal of plastic without medical assistance. Do not use solvents for removal. Flush skin thoroughly with water. Seek medical attention if rash or burns occur.

Eye

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

FIRE FIGHTING MEASURES

Extinguishing media

Water, CO₂, Powder, Foam. Water is the preferred extinguishing medium due to the cooling capacity. Proper cooling is essential, otherwise material may re-ignite.

Protection

Firefighters must wear approved protective clothing and self-contained breathing apparatus.

Hazardous Combustion Products

Product will burn with dark smoke, containing hazardous combustion products carbon monoxide, carbon dioxide and hydrocarbon fragments. Formation of traces of aliphatic and aromatic hydrocarbons, aldehydes, acids, phenol and phenol-derivatives may occur.

HANDLING AND STORAGE

Handling

Ensure adequate ventilation or exhaust ventilation in the working area. Avoid inhalation of dust.

Storage

Inert material under normal storing conditions. Should be stored indoor, protected from heat and direct sunlight.

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
Dust	-	5 mg/m ³

Provide good ventilation. Adequate general ventilation of the work place 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.

Physical and Chemical properties

Physical State	Solid (sheet form)
Colour	Colourless or dependent of colouring agent
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

RECYCLING AND RECOMMENDATIONS FOR DISPOSAL

Recycling

This product can be recycled. Please contact Arla Plast AB for information.

Waste Disposal

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

OTHER INFORMATION

This publication provides information and guidelines for safe handling and secondary fabrication of above PC products and is based on currently available experience and knowledge. The data does not signify any warranty with regards to product properties. These sheets are regarded as articles and do not require a safety data sheet.