

Product Handling Information Document

Extruded sheet based on PC/ABS

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COMPANY

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PRODUCT NAME

ATECH 5xxx range ($x=0 \rightarrow 9$)

AREA OF USE

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

COMPOSITION/CLASSIFICATION OF SUBSTANCES

Polymer blend based on polycarbonate / acrylonitrile-butadiene-styrene copolymer.

ATECH 5xxx

Base material 80-100%:

ABS: Acrylonitrile-Butadiene-Styrene copolymer

CAS 009003-56-9

PC: Polycarbonate

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

ATECH 51xx-ECER-7-8

Flame-retarded (Halogen free according to DIN VDE 0472,815)

Basic material 80-100%:

ABS: Acrylonitrile-Butadiene-Styrene copolymer

CAS 009003-56-9

PC: Polycarbonate

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

Zinc borate (2ZnO.3B₂O₃.3,5 H₂O) concentration <5%

CAS 138265-88-0

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

Fire men have to wear approved protective clothing and self-contained breathing apparatus.

Hazardous Combustion Products

Hazardous combustion products may include dense smoke that contains decomposition products with various content plus carbon dioxide and carbon monoxide.

HANDLING AND STORAGE

Handling



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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 too high temperatures, can give fumes that irritate eyes or throat. Fumes evolved by overheating may contain monomers, hydrogen carbons and their oxidation products, see table below for thresh hold levels of monomers.

| Name | CAS-no. | Lower threshold |
|-----------------------------|----------|--------------------------------|
| Styrene | 100-42-5 | 90 mg/m ³ ; 20 ppm |
| Acrylonitrile | 107-13-1 | 4,5 mg/m ³ ; 2 ppm |
| 1,3-Butadiene | 106-99-0 | 0,5 ppm |
| n-butylacrylate | 141-32-2 | 50 mg/m ³ ; 10 ppm |
| MMA | 80-62-6 | 200 mg/m ³ ; 50 ppm |
| Chlorobenzene | 108-90-7 | 47 mg/m ³ ; 10 ppm |
| Phenol | 108-95-2 | 4 mg/m ³ ; 1,0 ppm |
| Ethylbenzene | 100-41-4 | 50 ppm |
| 4,4'-isopropylidenediphenol | 80-5-7 | 10 mg/m ³ |
| 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.

Physical and Chemical properties

| | |
|---------------------------|------------------------------|
| Physical State | Solid |
| Colour | Dependent of colouring agent |
| Odour | Faint odour |
| Softening Range | 90 – 200 °C |
| Decomposition Temperature | > 300 °C |
| Water Solubility | Insoluble |
| Vapour pressure | Not applicable |
| Specific weight | 1,09 – 1,21 |
| Flash point | > 320 °C |
| Ignition temperature | > 390 °C |
| Explosive limits | Not applicable |

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 ABS products and is based on currently available experience and knowledge. The data does not signify any warranty with regards to product properties.

