

# PAR Group Ltd

## PETG Sheet

### Material Safety Data Sheet



In accordance with Regulation (EC) No. 1907/2006 Page 1 of 3 revised: 17.08.2016

#### SECTION 1 - Identification of Substance

Use: Flat sheets (semi finished products) for visual communication, construction and industrial applications

#### SECTION 2 - Hazards identification

Not classified as dangerous according to EC directive 1272/2008. If used as intended, PETG sheets do not constitute any risk to public health and the environment.

#### SECTION 3 - Composition / Information on Ingredients

Rigid thermoplastic sheets made of amorphous polyethylene terephthalate or proprietary copolyester. Sheets are produced by extrusion.

#### SECTION 4 - First Aid Measures

Inhalation of processing fumes or smoke from fire:

After accidental inhalation of fumes from overheating or combustion, move the person concerned to fresh air. Seek medical assistance if breathing difficulties occur.

Skin contact:

Cool skin rapidly with cold water after contact with molten polymer. Do not attempt to peel polymer from the skin. Seek medical treatment for thermal burn.

Eye contact:

Wash with plenty of fresh water and seek medical assistance.

Ingestion:

No special measures required as ingestion is not expected. Seek medical assistance if symptoms develop.

#### SECTION 5 - Fire-Fighting Measures

Suitable extinguishing media: Water spray, foam.

Extinguishing media which must not be used: Direct water jet.

Thermal decomposition products: Predominantly Acetaldehyde (emits acrid smoke, irritating fumes).

Hazardous combustion products: Carbon Dioxide, Carbon Monoxide.

Breathing equipment with independent air supply is required for fire fighting.

#### SECTION 6 - Accidental Release Measures

No special measures required.

Remove dust by mechanical means or wet sweeping.

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## SECTION 7 - Handling and Storage

### Handling:

Ensure good ventilation and dust extraction on processing machines and at other places where dust may develop.

### Storage:

Dry storage, protect from direct sunlight.

## SECTION 8 - Exposure Controls / Personal Protection

General protection measures: Do not breathe fumes from hot polymer.

|                                |                         |                              |
|--------------------------------|-------------------------|------------------------------|
| Personal protection equipment: | Respiratory protection: | Efficient breathing mask.    |
|                                | Skin (hand) protection: | Gloves against sharp edges.  |
|                                | Eye protection:         | Safety goggles if machining. |

## SECTION 9 - Physical and Chemical Properties

|                               |   |
|-------------------------------|---|
| Physical state:               | Rigid, solid plastic sheets.                      |
| Colour:                       | Colourless or various colours.                    |
| Odour:                        | None  |
| Glass transition temperature: | 83 °C   |
| Melting temperature:          | 248 °C  |
| Auto-ignition temperature:    | 454 °C  |
| Density:                      | 1270 kg/m <sup>3</sup>                            |
| Solubility:                   | Insoluble in water. Medium solubility in acetone. |

## SECTION 10 - Stability and Reactivity

|  |   |
|--|---|
| General information:                         | Stable under normal conditions.   |
| Chemical stability:                          | Stable under normal conditions.   |
| Conditions to avoid:                         | Avoid creating dust<br>(dust may form explosive mixtures with air).                   |
| Incompatible materials:                      | Acetic anhydrides, benzenes, chloroform, acetone,<br>dimethylformamide, chromic acid. |
| Hazardous thermal<br>decomposition products: | Acetaldehydes<br>Carbon dioxide<br>Carbon monoxide                                    |

## SECTION 11 - Toxicological Information

|                 |                          |
|-----------------|--------------------------|
| Acute toxicity: | No acute toxicity known. |
|-----------------|--------------------------|

## SECTION 12 - Ecological Information

|                                |  |
|--------------------------------|--|
| Ecotoxicity:                   | Negligible.  |
| Persistence and degradability: | No data available.   |
| Mobility:                      | Insoluble in water, no data available on mobility in soil. |

## SECTION 13 - Disposal Considerations

PETG sheet can be recycled. Recycling is the preferred waste treatment method.

PETG sheet waste can be incinerated when in compliance with local laws.

Disposal by incineration must only be undertaken in facilities which are equipped with a flue gas cleansing unit.

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## SECTION 14 - Transport information

|                              |   |
|------------------------------|---|
| UN classification number:    | Not classified as dangerous according to transport regulations. |
| Transport hazard class:      | Not required as not classified as dangerous.                    |
| Packing group:               | Not required as not classified as dangerous.                    |
| Environmental hazard:        | Not required as not classified as dangerous.                    |
| Special precaution for user: | Not required as not classified as dangerous.                    |

## SECTION 15 - Regulatory information

PETG sheets do not require special markings under the dangerous substances and preparation directive 67/548/EEC.

A chemical safety assessment is not available.

## SECTION 16 - Other information

The information given does not represent a guarantee of the properties and quality of the material.

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