Cancels and replaces version:	Version:	Date / reviewed on:
	1.04	10.03.2004

1.1. Material identification

Trade name: **SUSTA® PEI**

1.2. Product use Engineering thermoplastic polymer shapes for subsequent fabrication.

1.3. Company identification

SUSTAPLAST KG
D-56112 Lahnstein

1.4. Emergency telephone

Tel ++49-2621-693-0
Fax ++49-2621-693-170

2. Composition / Information on ingredients

2.1. Chemical character

Polyetherimid
Contains eventually colour pigments

CAS number : 61128-46-9 (PEI)

2.2. Hazardous ingredients

Constituents are part of the polymer or encapsulated within the polymer and therefore represent no risk of exposure under normal processing and handling conditions.

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3. Hazards identification

None under normal processing and handling conditions.

4. First aid measures

Skin contact: In case of skin contact with molten material do not try to peel off polymer from skin – cool rapidly with cold water.
Cover burns with sterile bandage.
Burns caused by molten material require physician or hospital treatment.

Eye contact with chips: Do not rub eye, keep still and consult physician

Inhalation of fumes: If exposed to fumes from overheated or burning material move to fresh air.
Consult physician if symptoms persist.

5. Fire-fighting measures

Suitable extinguishing media:
water, foam, dry extinguishing media, carbon dioxide.

Fire-fighting instructions:
Fire fighters and others exposed to combustion products should wear full protective clothing and self-contained breathing apparatus.
Molten Product should be cooled by water spray.
Dispose fire debris and contaminated extinguishing water in accordance with local regulations.
Formation of further fission and oxidation products depend upon the fire conditions.

6. Accidental release measures

Personal precautions: n.a.

Environmental precautions: acc. section 12 & 13

Methods for cleaning up: na.

7.1. Handling

General hints: Avoid overheating and dust generation during machining.
Keep working area clean of waste and chips to avoid stumbling and slipping.

7.2. Storage

Protection against fire and explosion:

Keep attention for fire protection measures.
Take precautionary measures against static discharges.

8.1. Exposure limit values

Please refer to local regulations in respect to dust generation during machining.
During machining a dust exhausting system is recommended.

8.2. Exposure controls

Respiratory protection :

Use ventilation or respiratory protection during dry machining.

Eye protection:

Wear safety glasses when machining to prevent particles from entering eyes.

9. Physical and chemical properties

Appearance	semi-finished product – e.g. rod, plate, tube
Colour:	Standard transparent, other colours possible
Odour:	odourless

Melting temperature	217 °C (ISO 11354, DSC)
Decomposition temperature:	> 530°C
Ignition temperature:	> 535°C (ASTM D 1929)
Explosive properties:	n.a.
Density: (20°C)	1.27 /cm³

Solubility:
insoluble in water
insoluble in usual organic solvents

Chemical resistance:
Very good resistance against: hot water and water vapour, mineral oils, petrols (up to 70°C), alcohols and other. Not resistant (stress cracking risk) against: ketones, high-aromatic solvents, partially halogenated hydrocarbons and solvents f.ex. methylenchlorid

10. Stability and Reactivity

Stability at room temperature: stable

10.1 Conditions to avoid:

Avoid heating above 530 ° C.

10.2. Materials to avoid: acc. section 9

10.3. Hazardous decomposition products:

Carbon monoxide, nitrogen oxide, traces of hydrogen cyanide

11. Toxicological information

According to our experience and relevant information available to us the product possesses no toxicological properties, provided it is handled and processed according good manufacturing practice.

Thermal decomposition products are irritating to the respiratory tract.

12. Ecological information

Ecotoxic effects: none, based on insolubility in water. Not biodegradable.

13. Disposal considerations

Check for possible recycling.

Waste disposal by landfill or incineration in compliance with state and local regulations.

14. Transport information

n.a. - not classified as hazardous good under transport regulations.

15. Regulatory information

Labelling according to EEC Directions

Not subject to labelling.

National legislation / regulations

Water hazard class: non water hazardous (VwVws (Germany) of 17.5.1999, Annex 1)

16. Other information

For further information please pay attention to our relevant product information and technical data sheets.