



Material Safety Data Sheet

PEI Products of ZL engineering plastics, inc.

1. Product and Company

ZL Products: ZL™ 1000 Ultem® PEI
ZL™ 1000 BLK Ultem® PEI

Manufacturer: ZELL-METALL GmbH Tel: +43 6547 8417
Schulstraße 511 Fax: +43 6547 8890
A-5710 Kaprun E-mail: zell-metall@zmk.at
Austria/Europe Website: www.zell-metall.com

2. Composition / Information on Ingredients

Stock shapes manufactured of extruded Polyetherimide, possibly pigments, fillers, and additives.

CAS – number: 61128 – 46 – 9

3. Possible Hazards

None.

4. First Aid Measures

General Information: Burns caused by molten material require hospital treatment. In case the plastic burns, and combustion gases are inhaled, immediately leave the room and get medical help.

5. Fire Fighting Measures

Suitable extinguishing agents: Water, foam, CO₂, dry extinguishing media.

Necessary Protective Gear: Self-contained breathing apparatus and protective clothing.

6. Measures in case of Accidental Release

None.

7. Handling and Storage

No special handling precautions necessary. For storage, avoid long term exposition to UV, and avoid contact or proximity with an ignition source.

8. Exposure Limits

None, except when product burns. If exposed to combustion fumes in a high concentration, bring the victim into fresh air. Wear gloves for handling, and safety goggles during machining.

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9. Physical and Chemical Properties

Appearance

Form: Solid as semi-finished (plate, rod, tube)
Color: Amber translucent or black
Odor: Odorless

Change in Physical State

Glass Transition Temperature: 215°C
Thermal Decomposition Temperature: >530°C
Ignition temperature: 535°C
Density: 1.27 g/cm³

10. Stability and Reactivity

Thermal Decay: Starts to decompose at 530°C
Dangerous by-products of decay: H₂O, CO₂, CO, depending on the amount of environmental oxygen.
NOx and traces of HCN.

11. Toxicological Information

In our experience and according to information available to us, the product is not harmful to health provided it is correctly handled and processed according to the given recommendations.

12. Ecological Information

This material does not harm the environment, but is not biodegradable.

13. Disposal Information

Check for possible recycling. Can be dumped with domestic refuse or incinerated in suitable plants in accordance with local regulations. This product does not contain cadmium pigments or cadmium stabilizers.

14. Transport Information

Not classified as hazardous according to transportation regulations.

15. Rules

Not subject to labeling.

16. Special Information

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

**For further information on our Ultem® PEI Products,
please contact ZL at 1-866-957-5278.**